

Programs of Study

*Onondaga Community College
offers more than 50 programs
of study in areas such as
Business, Human Services,
Applied Technologies, Computers,
Health Professions, Humanities,
Math, Science, and the
Performing and Visual Arts.*

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Degree and Certificate Programs

Years ago, well-paying careers could be attained simply through hard work and diligence after graduating from high school. Statistics and research tell us that anyone wishing to earn a good living in the coming years will require at least one or two years of post-high school education. Onondaga Community College offers more than 50 programs leading to associate degrees or career certificates. Upon completion of these programs, you will be prepared to either transfer to a four-year institution, or to begin working in the area you have studied.

Program	Code	Award	HEGIS*
Accounting	BUA	AAS	5002.00
Apprentice Studies – Building Trades	ABT	AAS	5317.00
Apprentice Studies – Electrical Trades	ASE	AAS	5310.00
Architectural Technology	ARH	AAS	5304.00
Art	ART	AAS	5012.00
Automotive Technology	AUT	AAS	5306.00
Business Administration	BUS	AS	5004.00
Business Technology	BUS	AAS	5004.00
Computer Engineering Technology	CMT	AAS	5104.00
Computer Information Systems	CIS	AAS	5101.00
Computer Science	CSC	AS	5101.00
Criminal Justice	CRJ	AAS, AS	5505.00
Early Child Care	ECC	CERT	5503.00
Electrical Engineering Technology	ELT	AAS	5310.00
Electronic Media Communications	EMC	AAS	5008.00
Engineering Science	ENS	AS	5609.00
Environmental Technology: Geoscience	ETG	AAS	5408.00
Fire Protection Technology	FPD,FPC	AAS, CERT	5507.00
Health Information Technology	HIT	AAS	5213.00
Homeland Security & Disaster Preparedness	HSD	AAS	5508.00
Hospitality Management	HOS	AAS	5010.00
Human Services	HUM	AS	5501.00
Interior Design	IND	AAS	5012.00
Labor Studies	LBR	AS	5099.00
Law Enforcement (formerly Public Safety)	LEC	CERT	5505.00
Liberal Arts & Sciences - Adolescence Education - Grade 7-12 (Teacher Education Transfer)	EDA	AA	5608.00
Liberal Arts & Sciences - Childhood Education - Grade 1-6 (Teacher Education Transfer)	EDC	AA	5608.00
Liberal Arts & Sciences - General Studies	GEN	AA	5649.00
Liberal Arts & Sciences - Humanities and Social Sciences	HMT	AA	5649.00
Liberal Arts & Sciences - Math/Science	MTS	AA, AS	5649.00
Mechanical Technology	MET	AAS	5315.00
Microcomputer Troubleshooting and Maintenance	MTM	CERT	5105.00
Music	MUS	AAS	5610.00
Nursing	NUR	AAS	5208.00
Photography	PHO	AS	5007.00
Physical Education & Exercise Science Studies	EXR	AS	5299.00
Physical Therapist Assistant	PTA	AAS	5219.00
Professional Communication	PCM	AAS	5606.00
Professional Cooking	PFC	CERT	5404.00
Recreation Leadership	REC	AS	5506.10
Respiratory Care	RPD	AAS	5215.00
Surgical Technology	SGC	CERT	5211.00
Telecommunications Technology	TTA	AAS	5310.00
Telecommunications Technology - Verizon**	TTN	AAS	5310.00
Web Technology	WEB	CERT	5101.00

Please Note: Enrollment in other than registered or otherwise approved programs may jeopardize a student's eligibility for certain aid awards.

*The HEGIS (Higher Education General Information Survey) code is a federal designation, adopted by most states, of codifying academic programs and disciplines.

** For Verizon employees only.

Accounting (A.A.S.)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 324
 PHONE: (315) 498-2435
 EMAIL: OCCINFO@SUNYOCC.EDU

If you've always enjoyed working with numbers and mathematics, and picture yourself in a career working with numerical data, then an Accounting degree might be of interest to you.

As an Accounting major, you will graduate with the necessary skills to qualify for employment in entry level positions in public, private or governmental accounting.

Students planning to earn a four-year degree in Accounting should not enroll in this curriculum, but should pursue the Business Administration A.S. degree.

First Year	Credits
ENG 103-104 Freshman Composition and Literature I and II (ENG 099, a non-credit course, may be required.)	6
BUS 105-106 Financial Accounting and Managerial Accounting	6
BUS 117 Integrated Financial Systems I (Fall only)	3
CIS 100 Principles of Information Systems	3
BUS 243-244 Business Law I and II	6
Liberal Arts electives	6
Physical Education Activities	2
Total Credits:	32
Second Year	
BUS 201 Intermediate Accounting (Fall only)	4
BUS 202 Intermediate Accounting II (Spring only)	4
ECO 203 Macroeconomics	3
ECO 204 Microeconomics	3
BUS 212 Business Correspondence	3
BUS elective ¹	3
BUS 203 Electronic Spreadsheets in Accounting	3
<i>Choose either:</i>	3
BUS 205 Income Tax Accounting I	
BUS 207 Cost Accounting	
Science electives	6-8
Health elective	1
Total Credits:	33-35
Total Program Credits:	65-67

1. Recommended Business electives: BUS 101, BUS 230 and BUS 231. To determine transferability of other Business courses, see a business advisor.

Apprentice Training: Building Trades (A.A.S.)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 352
 PHONE: (315) 498-2687
 EMAIL: ARCHTECH@SUNYOCC.EDU

If you are an apprentice or journeyman in the building trades under the auspices of an appropriate apprenticeship training program, you are invited to apply for this program.

Up to 30 college credit hours will be awarded toward the degree only after you have completed the Onondaga program. Your individual apprentice program will be evaluated on the basis of related schooling and on-the-job training. The amount of credit granted for the journeyman certificate will be based upon the recommendation of the evaluation committee.

Once you have completed the Onondaga degree program, you may have the opportunity to transfer credits toward a bachelor's degree.

	Credits
ENG 103-104 Freshman Composition and Literature I and II (ENG 099, a non-credit course, may be required.)	6
Social Science electives	6
Mathematics/Science electives ¹	6
Liberal Arts elective	3
Journeyman Certificate	0-30
Technical electives ²	8-38
Health elective	1
Physical Education Activity	1
Total Program Credits:	31-91

Notes:

1. Minimum Mathematics level is MAT 111.
2. Technical electives must have the advisor's approval. Courses in MET, ELT, ARH, BUS and CSC, or courses directly related to the trade, may be selected to meet this requirement.

Apprentice Training: Electrical Trades (A.A.S.)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 143
 PHONE: (315) 498-2442
 EMAIL: OCCINFO@SUNYOCC.EDU

To be eligible for this program, you must be an apprentice or journeyman electrician in a state-approved program, such as the Syracuse Joint Apprenticeship Training Committee for the electrical industry. This is a state-recognized committee jointly sponsored by the electrical industry and the International Brotherhood of Electrical Workers (IBEW), Local No. 43. To enroll, you will need a letter from IBEW Local No. 43 or from your employer (where the state-approved program is available), confirming your status as an apprentice or journeyman.

It should be noted that the program is a registered associate degree program rather than one which provides trade electrician training. Those interested in becoming electricians should contact the IBEW Local No. 43 at (315) 422-0435 or (315) 488-1388.

Those who complete the Onondaga program will be awarded the Associate in Applied Science (A.A.S.) degree as well as the opportunity to transfer credits toward a bachelor's degree at a four-year institution such as the SUNY Institute of Technology at Utica/Rome, and the Oswego Department of Vocational Education.

	Credits
Electrical Trade – Transfer Credits ¹ for Apprentice Training	20
ENG 103-104 Freshman Composition and Literature I and II (ENG 099, a non-credit course, may be required.)	6
ELT 141 Circuits I	4
CMT 171 Digital Electronics, or ELT 142 Circuits II, or ELT 161 Electronics I	4
MAT 114 Intermediate Algebra with Applications ²	4
Laboratory Science	4
Social Science electives	6
Occupation-Related electives - Courses in Electrical, Mechanical, or Architectural Technology, Business, and Computer Science are recommended	6
General electives	6
Physical Education Activities	2
Health elective	1
Total Program Credits:	63

Notes:

1. If you have not received training through IBEW or a state approved program, contact the Electrical Technology department for credit-transfer information by examination.
2. Students with higher Mathematics proficiency may complete MAT 141, MAT 161, or MAT 162.

Architectural Technology (A.A.S.)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 352
PHONE: (315) 498-2687
EMAIL: ARCHTECH@SUNYOCC.EDU

Graduates of the Architectural Technology program have acquired the knowledge and skills to pursue a wide variety of employment opportunities in the design and construction industry, and are well-prepared to pursue a bachelor's degree at a four- or five-year college or university.

The faculty is composed of practicing architects and engineers who are in contact with today's materials, construction methods and computer technology. The Architecture department is held in high regard in the Central New York architectural community for its ability to challenge its students and instill essential technical skills that employers look for.

The program stresses the fundamentals, beginning with a three-course foundation semester and continuing with three-semester studio course sequences available in both design and drafting. Students in the program have the opportunity to sample a variety of interest areas within the discipline, including interior architecture, building design, graphics, computer drafting, materials and construction technology, architectural history, environmental controls, office practice, and structures. Green/sustainable practices are infused throughout the curriculum. You may begin either fall or spring semester.

The NYS Education Department Division of Professional Licensing recognizes the A.A.S. in Architectural Technology as equivalent to two years of experiential credit toward architectural licensure.

Students in the program will be required to create, transmit and present assignments using computers and other digital technology. After the completion of the first semester required classes (ARH 101, 150, and 170), each student will be required to provide his or her own laptop computer and software for all classes in the program. The laptop computer must be capable of running the required software as designated for each course.

Individual courses are available to practicing professionals who wish to update skills and to satisfy continuing education requirements.

Career Possibilities

Our graduates find employment in the private and public sectors at the residential, commercial, industrial, and institutional levels.

Potential work situations include:

- Architect offices
- Engineering consulting firms (civil, mechanical, electrical)
- Landscape architect offices
- Construction management firms
- Building contracting firms
- Building developers
- Computer drafting and mapping service companies
- Construction material suppliers and producers (sales, shop drawings)
- Facilities planning offices (corporate, industrial, educational, health service institutions)
- Project coordination for local, county, and state government agencies
- Building inspection
- Construction site inspection and testing companies

Transfer Options

Qualified graduates of this program can expect to be accepted for further professional study at four- or five-year schools in a variety of related fields including architecture, interior design, landscape architecture, and construction management. Although the number of transfer credits accepted are ultimately at the discretion of receiving

institutions, experience has shown that qualified Architectural Technology graduates can expect to transfer most, if not all, of their Onondaga credits.

A sampling of receiving institutions include:

- University at Buffalo: Architecture*
- SUNY College of Environmental Science and Forestry: Landscape Architecture, Construction Management
- Syracuse University: Architecture, Interior Design
- Boston Architectural Center: Architecture*
- many other upper-division schools all over the U.S.

* Onondaga has an articulation agreement with these institutions for these programs. An articulation agreement is a formal agreement with a four-year college which guarantees that an associate degree graduate may transfer with junior status and without loss of credit. Students must meet the criteria set by the four-year institution.

This program, with appropriate substitutions, is also approved by the SUNY College of Environmental Science and Forestry for transfer with junior standing into the Wood Products Engineering and Landscape Architecture programs.

Graduation Requirement: Students must earn a grade of C or better in core ARH courses in order to graduate.

First Semester	Credits
ARH 101 Design and the Built Environment	2
ARH 150 Graphic Communication Studio I	4
ARH 170 Technology: Design and Production	3
MAT elective ¹	4
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
Physical Education Activity	1
Total Credits:	17

Second Semester	Credits
ARH 120 Drafting Studio 2: Wood Frame	3
ARH 140 Wood Frame Construction	3
Professional electives	6-7
ARH 271 Architectural CAD I	3
ENG 104 Freshman Composition and Literature II	3
Physical Education Activity	1
Health elective	1
Total Credits:	17-18

Third Semester	Credits
ARH 121 Drafting Studio 2: Masonry	3
ARH 142 Commercial Construction I (1st 7 weeks)	2
ARH 143 Commercial Construction II (2nd 7 weeks)	2
Professional electives	4
Mathematics/Science elective ¹	4
Social Science elective	3
Total Credits:	18

Fourth Semester

Professional electives	14-15
Social Science elective	3
Total Credits:	17-18
Total Program Credits:	69-71

Notes:

1. Minimum 4 hours mathematics. MAT 143 is minimum requirement. More advanced courses may be substituted with permission of advisor.

Art (A.A.S.)

OFFICE: FERRANTE HALL, ROOM 162
 PHONE: (315) 498-2401
 EMAIL: OCCINFO@SUNYOCC.EDU

The Art program is focused on the development of conceptual and technical skills of students in the fine arts and commercial design. Graduates of the Art program have a strong foundation for transfer to art schools and other four-year institutions, or they may apply their skills to the marketplace.

All art majors fulfill 24 credit hours of foundations including basic drawing, design, art history, color theory, concept development and an introduction to computer art software. Students then choose an area of specialization from the following:

Drawing and Painting

This specialization focuses on developing aesthetic and technical skills for drawing and painting and exploring the potential of materials.

Fine Crafts

The Fine Crafts specialization provides a broad-based foundation with emphasis on 3-dimensional exploration using the non-traditional fine arts materials of clay and glass.

Graphic Design

Graphic Design is concerned with visual communication and the design of ideas for print media and the Web. This specialization includes instruction in typography, digital image creation, design and advertising.

Multimedia Design

The Multimedia Design specialization focuses on visual communication as it applies to multimedia and interactive environments. This specialization includes instruction in animation, Web and interactive design.

	Credits
ENG 103-104 Freshman Composition and Literature I and II (ENG 099, a non-credit course, may be required.)	6
Social Science electives	6
Mathematics/Science elective	6-8
General elective	3
Health elective	1
Physical Education Activities	2

Art - first Year Courses: (24 credits required)

ART 101 Drawing I	3
ART 103 Design I	3
ART 105 History of Art I	3
ART 142 Intro to Computer Graphics	3
ART 102 Drawing II	3
ART 104 Design II	3
ART 106 History of Art II	3
ART 152 Color and Concept Development	3

Art - Second Year Courses: (select one specialization)

1. Studio Arts: Painting/Drawing

ART 201 Advanced Drawing and Painting I	3
ART 205 Figure Drawing I	3
ART 213 Painting I	3
3 Credits selected from ART 202, 206 or 214	3

2. Studio Arts: Fine Craft

ART 219 Ceramics I	3
ART 220 Ceramics II	3
6 Credits selected from ART 211, 212, 226, or 227	6

3. Graphic Design

ART 203 Typography and Layout	3
ART 204 Intermediate Computer Graphics	3
ART 240 Advanced Graphic Design	3
ART 244 Visual Design for the Web	3

4. Multimedia Design

ART 204 Intermediate Computer Graphics	3
ART 218 Art in Animation	3
ART 224 Design for Multimedia	3
ART 244 Visual Design for the Web	3
Art or Photography Electives	3

Total Program Credits 60-65

Automotive Technology (A.A.S.)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 176
 PHONE: (315) 498-7200
 EMAIL: OCCINFO@SUNYOCC.EDU

As a modern automotive technician, you will need advanced skills to perform service and maintenance on state-of-the-art vehicles. Progressive technologies such as computer-controlled fuel and ignition systems, electronic suspension, anti-lock brakes and microcomputer-controlled heating and air conditioning systems demand that you possess a substantial background in electronic systems and diagnostic procedures.

Onondaga's Automotive Technology degree program allows you to earn an A.A.S. degree while training on the latest computer-based diagnostic test instrumentation. Basic and specialized automotive courses will help you develop a solid foundation in this fast-paced field. There is intense applied instruction on emissions diagnosis and driveability concerns in laboratory activities. Comprehensive instruction in mathematics, the sciences and liberal arts allows you to develop the diverse skills necessary for advancement in this exciting field.

Graduates of the Automotive Technology program are trained to seek employment in related automotive fields or pursue transfer opportunities to four-year colleges.

This program has special graduation requirements. Applicants must secure a cooperative work assignment at an automotive service facility approved by the Automotive Technology department while enrolled in the program. All Automotive Technology students are required to purchase a tool set approved by the Automotive Technology department. These tools can be purchased while the student is completing the program. Students do not have to have tool sets to begin the Automotive Technology program. Consult the department for additional information.

First Semester	Credits
ATC 115 Automotive Electrical Systems	4
ATC 103 Automotive Fundamentals	4
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit English course, may be required.)	3
MAT 114 Intermediate Algebra ¹ (A non-credit Mathematics course may be required.)	4
Health 206 Studies in Health and Wellness	1
Total Credits:	16

Second Semester

ATC 142 Fuel and Ignition Controls	4
ATC 116 Automotive Electronics	4
MAT 143 Pre-Calculus With Trigonometry ¹	4
ENG 104 Freshman Composition and Literature II	3
Physical Education Activity	1
Total Credits:	16

Summer Session

ATC 131 Engine Concepts	3
ATC 190 Co-op Education I	3
Total Credits:	6

Third Semester

ATC 207 Chassis Fundamentals	5
ATC 243 Advanced Engine Performance	4
PSY 103 General Psychology	3
SCI 111 Intro to Physics and Chemistry ²	4
Total Credits:	16

Fourth Semester

ATC 222 Drivelines and Geartrains	5
ATC 271 Climate Control Systems	3
Liberal Arts elective ³	3
Social Science/Philosophy elective ⁴	3
Physical Education Activity	1
Total Credits:	15

Summer Session

ATC 290 Co-op Education II	3
Total Credits:	3
Total Program Credits:	72

Notes:

- Higher level Mathematics course may be substituted, subject to advisor approval.
- Higher level Physics courses such as PHY 101 or PHY 103 may be substituted, subject to advisor approval.
- COM 101, COM 205, or CIS 100 recommended. Liberal arts also includes any ANT, ART, COM, CSC, GEN, HIS, MUS, PHI, POS, PSY, RDG or SOC courses. Language, literature, non-technical mathematics or physical sciences, and biological sciences are also applicable.
- ECO 203, ECO 204, PHI 107, PHI 108, SOC 103 or an upper-level psychology course is suggested. However, any ANT, ECO, HIS, POS, PSY or SOC course may be applied to this category.

Business Administration (A.S.)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 324
PHONE: (315) 498-2435
EMAIL: OCCINFO@SUNYOCC.EDU

With a Business Administration A.S. degree from Onondaga, students will have several options upon graduation. Primarily, this degree is meant to transfer and meet half the requirements of a four-year degree in the chosen field of business. The degree is designed to parallel the requirements of a typical bachelor's degree in business. Forty credits in this program are electives of various types, providing students with enormous flexibility in meeting the academic requirements of their desired four-year schools.

The Business department maintains a lengthy list of articulation agreements. Students who meet the established criteria for these agreements can transfer all credits to the four-year school. A partial list of these schools includes LeMoyné, RIT, Clarkson, Syracuse, Keuka, and numerous SUNY institutions including Oswego, Fredonia, and Albany.

Some students will choose to seek employment after finishing this degree. Upon completion of the degree these students will hold an A.S. in Business Administration, and will be well positioned to return to the academic world at a later point in their lives.

First Year

	Credits
ENG 103 -104 Freshman Composition and Literature I and II (ENG 099, a non-credit course, may be required.)	6
MAT 115 Modeling for Decision Making ¹	3
MAT 116 Decision-Making with Calculus ¹	3
BUS 243 Business Law I	3
BUS elective ²	3
Liberal Arts electives	12
Physical Education Activities	2
Total Credits:	32

Second Year

ECO 203 Macroeconomics	3
ECO 204 Microeconomics	3
BUS 105-106 Financial Accounting and Managerial Accounting	6
BUS 219 Business Statistics	3
BUS elective ²	3
ENG elective (200 Level)	3
Liberal Arts electives	6
Laboratory Science elective	4
Health elective	1
Total Credits:	32
Total Program Credits:	64

Notes:

- Students should take either MAT 115 and MAT 116 OR MAT 143 and MAT 161. Consult with your advisor.
- Recommended Business electives: BUS 101, BUS 121, BUS 138, BUS 230 and BUS 231. To determine transferability of other Business courses, see advisor.

Business Technology (A.A.S.)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 324
PHONE: (315) 498-2435
EMAIL: OCCINFO@SUNYOCC.EDU

The Business Technology A.A.S. degree (career degree) is designed to meet the needs of individuals who plan to seek employment immediately upon graduation from Onondaga and/or those already employed who desire to update or develop new skill areas for professional advancement.

A co-op work experience with a local business or organization is strongly recommended for students enrolled in this degree. Additionally, the degree provides a well-rounded, comprehensive program of study.

Individuals who intend to pursue advanced studies at four-year institutions and wish to maximize credit hour transfer should enroll in the Business Administration A.S. degree program.

First Semester	Credits
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
CIS 100/120 Principles of Information Systems or Advanced Principles of Information Systems	3
BUS 101 Contemporary Business	3
BUS 102 Mathematics of Business and Finance	3
BUS 243/244 Business Law I or Business Law II	3
Physical Education Activity	1
Total Credits:	16

Second Semester	Credits
ENG 104 Freshman Composition and Literature II	3
MAT 118 Empirical Introduction to Statistics or higher	3
BUS 105 Financial Accounting	3
BUS 121 Principles of Marketing	3
BUS 138 Supervision and Management	3
HUM 270 Assertiveness Training or Health elective	1
Total Credits:	16

Third Semester	Credits
ECO 203/204 Macroeconomics or Microeconomics	3
BUS 212 Business Correspondence	3
Two Business electives	6
Liberal Arts elective	3
Total Credits:	15

Fourth Semester	Credits
BUS 295 Business Policy Seminar	3
Business elective	3
Liberal Arts elective	3
Science elective	3
General elective	3
Physical Education Activity	1
Total Credits:	16
Total Program Credits:	63

Computer Engineering Technology (A.A.S.)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 131
 PHONE: (315) 498-2451
 EMAIL: OCCINFO@SUNYOCC.EDU

The microprocessor chip is an integral part of industrial applications such as industrial process control, instrumentation, and communication. The demand for technical workers with microprocessor and digital background is growing at an accelerated pace and is likely to remain high for several decades.

With Onondaga's Computer Engineering Technology A.A.S. program, you will develop the conceptual skills needed from two areas: digital electronics and computer science. This curriculum draws upon hardware concepts from electronics and software

concepts from computer science; these concepts are integrated into the various course offerings.

If you wish to enroll in the program, you should have two years of high school mathematics. If you lack the recommended mathematics background, you are strongly urged to enroll in the Foundations of Technology program.

Upon completion of your A.A.S. degree in Computer Engineering Technology, you will be prepared to seek employment opportunities in the field or pursue a bachelor's degree (B.S.). Employment possibilities exist in a wide variety of industries concerned with digital electronics, instrumentation, computers, and manufacturing processes. Graduates who wish to pursue a B.S. degree in engineering technology can be accepted as third-year students at many four-year colleges.

Graduation Requirement: All students in the Computer Engineering Technology program must have a minimum grade of C- in the following courses: ELT 141, 161, 171, 294, and CMT 190.

Please note: if you wish to pursue a B.S.E.E. degree in electrical or computer engineering, you should consult with an advisor.

This program is accredited by Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC of ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 Telephone: (410) 347-7700. See Important Information section in the front of this catalog.

First Semester	Credits
CMT 171 Digital Electronics	4
CMT 101 Intro to Computers and Applications	4
ELT 141 Circuits I	4
MAT 143 Pre-Calculus with Trigonometry	4
Physical Education Activity	1
Total Credits:	17

Second Semester	Credits
ELT 161 Electronic Circuits I	4
CMT 190 Introduction to Microprocessors	4
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
Mathematics elective ¹	4
Physical Education Activity	1
Health elective	1
Total Credits:	17

Third Semester	Credits
CMT 278 Principles of Computer Programming	3
CMT 292 Data Acquisition and Control Using LabVIEW	4
ENG 104 Freshman Composition and Literature II	3
CMT/ELT elective ²	4
Social Science elective ³	3
Total Credits:	17

Fourth Semester

CMT 294 Designing Embedded Systems	4
ELT/PHI 120 Ethics In Engineering & Technology	3
PHY 103 General Physics I ⁴	4
Career Related elective ⁵	3-4
Total Credits:	14-15
Total Program Credits:	65-66

Notes:

1. Mathematics elective must be approved by the student's advisor. Suggested elective courses: MAT 151 or 161.
2. Elective must be approved by the student's advisor.
3. Applicable Social Sciences include ANT, ECO, HIS, POS, PSY and SOC courses. Elective must be approved by the student's advisor. Recommended courses are included in the GLAD (Global Awareness and Diversity) list.
4. Student may take PHY 103 or 105. Only one of these will be credited toward the degree requirement.

Computer Information Systems (A.A.S.)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 230
PHONE: (315) 498-2425
EMAIL: OCCINFO@SUNYOCC.EDU

A career in modern information systems management and support is possible by starting with an A.A.S. degree from Onondaga in Computer Information Systems.

As a CIS student, you will be exposed to current concepts of information processing including current application software, data communications, distributed processing, user interface, management of internets and intranets, and Web publishing using a diverse hardware environment.

The A.A.S. degree program in Computer Information Systems is oriented toward immediate employment. However, the program's curriculum is compatible with the curricula of numerous four-year computer information systems programs. If your goal is to transfer to a four-year college or university to pursue your bachelor's degree, you should work closely with an Onondaga transfer counselor to ensure your individual program meets transfer requirements. Developed in conjunction with a survey of the local community, the CIS curriculum follows the National Computing curricula guidelines of the Association of Computing Machinery.

Computer Information Systems is for the student interested in computer applications. Students interested in mathematics and science should consider the Computer Science A.S. degree.

A specialization must be chosen. Choices include: programming, Internet/Web, information technology support (help desk), or networking. Graduates with an A.A.S. degree in Computer Information Systems are prepared to work as beginning computer programmers, junior systems analysts, Web

Site Managers/Designers, operations trainees and network trainees. This program offers an opportunity for the currently employed computer information systems professional to update basic skills and to learn new languages, allowing for a great deal of lateral and upward mobility.

Computer Information Systems is constantly changing. Please see your advisor for the current requirements.

First Semester	Credits
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
CIS 130 Foundations of the Internet ¹	4
CIS 125 Principles of Information Systems II MAT sequence ²	4 3-4
CIS 101 Computer Concepts	1
Health elective	1
Total Credits:	16-17

Second Semester

ENG 104 Freshman Composition and Literature II	3
CSC 110 Program Design and Development	4
CIS/CSC Specialization Course ³	3-4
MAT sequence ²	3-4
Physical Education Activity	1
Total Credits:	14-16

Third Semester

Social Science/Humanities elective	3
CIS 286 Systems Analysis and Data Base Design	3
ENG elective	3
CIS/CSC Specialization Course ³	3-4
CIS/CSC Specialization Course ³	3-4
Physical Education Activity	1
Total Credits:	16-18

Fourth Semester

Social Science/Humanities elective	3
Liberal Arts elective	3
CIS/CSC Specialization Course ³	3-4
CIS/CSC Specialization Course ³	3-4
General elective ⁴	3
Total Credits:	15-17
Total Program Credits:	61-68

Notes:

1. CSC 264 recommended along with CSC 250 as a General or Liberal Art elective
2. Six credits of technical mathematics sequence are required. The MAT 115/MAT 116 sequence will fulfill this requirement, but MAT 143/MAT 162 is recommended. A non-credit mathematics may first be required based on college mathematics placement test results.

3. Specialization Courses must be selected from the following:

Programming	Credits
CSC 111 Fundamentals of Computing I	4
CSC 112 Fundamentals of Computing II	4
PHI 107 Logic	3
CSC Programming elective ⁺	3-4
CSC Programming elective ⁺	3-4

4. Choose from CSC 162, CSC 211, CSC 263, CSC 264, CSC 265. Programming electives should be chosen in consultation with the advisor to meet an individual student's needs. This will include those cores that require 5 courses.

Networking	Credits
CIS 271 Internetworking I	4
CIS 272 Internetworking II	4
CIS 291 Information Technology Support I	4
CIS 231 Advanced Web Servers	4
CSC 250 Client/Server Operations	3

Information Technology Support	Credits
CSC 250 Client/Server Operations	3
CIS 271 Internetworking I	4
CIS 291 Information Technology Support I	4
CIS 292 Information Technology Support II	4
CIS 231 Advanced Web Servers	3

Web Technology	Credits
CIS 230 Web Site and Server Management	4
CIS 231 Advanced Web Servers	3
CSC 264 Java Programming	4
CSC 250 Client/Server Operations	3
CIS 106 Intro to Digital Media	3

Computer Science (A.S.)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 230
 PHONE: (315) 498-2425
 EMAIL: OCCINFO@SUNYOCC.EDU

The Computer Science program at Onondaga Community College follows the latest ACM Guidelines for the A.S. degree. This degree program combines practical experience with current programming languages, together with a theoretical background in computer science. Choose this program if your goal is to transfer to a bachelor's degree program in computer science or software engineering.

Curriculum

You will be required to earn a minimum grade of C in all required CSC courses to receive your A.S. degree.

First Semester	Credits
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
MAT 161 Calculus I ¹	4
Social Science/Humanities elective	3
CSC 110 Program Design and Development	4
Health elective	1
Total Credits:	15

Second Semester

ENG 104 Freshman Composition and Literature II	3
MAT 251 Discreet Math ¹	3
CSC 111 Fundamentals of Computing	4
Liberal Arts elective ¹	3
PHI 107 Philosophy of Logic	3
Physical Education Activity	1
Total Credits:	17

Third Semester

Liberal Art elective ¹	3
CSC 112 Fundamentals of Computing	4
CSC 211 Computer System Organization	4
Sequential Laboratory Science I ²	4
CIS/CSC 255 Data Base Design and Development	3
Total Credits:	18

Fourth Semester

CSC 221 Software Engineering	4
Sequential Laboratory Science II ²	4
CSC/CIS/CMT elective ³	3-4
Physical Education Activity	1
General elective ⁴	3-4
Total Credits:	15-17
Total Program Credits:	65-67

Notes:

- MAT 161 and MAT 251 will fulfill this requirement. If MAT 143 is required it will be applied as a Liberal Art elective. MAT 162 and MAT 241 are also recommended and will be applied as Liberal Art electives. Non-credit mathematics may first be required.
- Most transfer institutions require PHY 105-205. Eight credits of non-technical sequential laboratory science will fulfill degree requirements, but may not transfer.
- A CSC elective must also be completed from courses numbered 160 or higher. See advisor. Advanced Placement in a 200 level course in CIS may be applied to this category.
- A technical course such as CIS 271 or a mathematics course such as MAT 162 or MAT 241 is recommended.

Criminal Justice (A.S. or A.A.S.)

OFFICE: MAWHINNEY HALL, ROOM 280
 PHONE: (315) 498-2341
 EMAIL: OCCINFO@SUNYOCC.EDU

If you picture yourself playing a positive role in the criminal justice system, Onondaga Community College's two degrees in Criminal Justice can help you develop the skills you will need in this challenging environment.

The associate in applied science (A.A.S.) degree prepares you to enter the criminal justice field after two years of study, while the associate in science (A.S.) degree lays the foundation for a four-year degree in a related field. If you are already employed in the criminal justice system, either Onondaga degree can sharpen your skills and advance your career. If you have a special interest in delinquency, Onondaga offers a 12-credit minor in this critical area, see page 104.

Both programs provide an overview of the entire criminal justice system, including the court system, criminal law, police-community relations, ethics, delinquency, probation, parole, criminology, security organization, homeland security and management. You will also study sociology and psychology as they relate to the criminal justice field. As a candidate for the A.S. degree, you will have an opportunity to specialize on one of several areas of interest: criminal justice, criminology, law enforcement, corrections, security, terrorism and criminalistics. With the A.A.S. degree, you will be prepared for a variety of positions in public or private agencies that provide law enforcement, corrections, probation, parole, security, crime prevention, community relations and similar services. If you plan to continue your studies in a related field, the A.S. degree is designed for a seamless transition into a four-year college or university program. If your plans change and you decide to enter the workforce after finishing your A.S. degree in Criminal Justice, you will be prepared for a variety of challenging positions.

We have highly experienced faculty which includes criminal justice experts from throughout Central New York, including professionals from the Syracuse Police Department, Onondaga County Sheriff's Department, DeWitt Police Department and the New York State Police. Prominent local attorneys, including a Federal and County prosecutor, teach criminal law courses. In addition, experts in the field of criminalistics, juvenile delinquency and the investigation of child abuse serve on our faculty.

Program Prerequisites

All matriculated students in the Criminal Justice program will be required to achieve placement at the ENG 103 and RDG 153 level before registering for any criminal justice course.

Completion Requirements

A final grade of C or better must be achieved in every criminal justice course to earn either the A.S. or A.A.S. degree in Criminal Justice.

Upon graduation, the successful criminal justice student will be able to:

1. Demonstrate knowledge of selected content areas within the field, such as juvenile delinquency, crime analysis, criminology, the judiciary, law enforcement, private security, and corrections.
2. Demonstrate critical thinking skills by understanding, evaluating and synthesizing primary questions underlying the criminal justice field and the major theoretical perspectives that the practitioner or researcher will bring to the profession.
3. Perceive and articulate ethical issues of situations and describe the appropriate corresponding behavior of the practitioner or researcher in the application of theory in real life situations within the criminal justice field.

Transfer Credit

Only credit from institutions that are accredited by their regional higher education accrediting body is accepted for transfer into the Criminal Justice program. No academic credit is awarded by the Criminal Justice program for life experience or for military, police academy or other professional training. No credit toward graduation is awarded for pre-collegiate level or remedial work designed to prepare the student for collegiate study. No criminal justice major credits are to be completed through knowledge-based examinations (e.g., CLEP). Awarding blanket credit for criminal justice courses in a "block" is not allowed (e.g., "12 hours criminal justice credit"). The institution awards degrees only to those students who have earned at least 50 percent of the credit hours in the criminal justice program through instruction offered at Onondaga Community College.

Criminal Justice Program (A.S.)

First Semester	Credits
COM 101 Interpersonal Communication OR COM 102 Public Speaking	3
CRJ 101 Justice System	3
CRJ 122 Introduction to Corrections	3
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
SOC 103 Introductory Sociology	3
Physical Education Activity	1
Total Credits:	16

Second Semester

CRJ 112 Introduction to Law Enforcement	3
ENG 104 Freshman Composition and Literature II	3
PSY 103 General Psychology	3
SOC 204 Social Problems <OR>	
SOC 207 Sociology of Deviance	3
Mathematics elective (Non-technical Math)	3
Physical Education Activity	1
Total Program Credits:	16

Third Semester

Criminal Justice elective	3
English elective (200-level)	3
Science elective (must include Laboratory)	4
General electives ¹	6
Total Credits:	16

Fourth Semester

Fourth Semester	Credits
CRJ 240 Capstone Course in Criminal Justice	1
Criminal Justice elective	3
Health elective	1
Science elective (must include Laboratory)	4
General electives ¹	6
Total Credits:	15
Total Program Credits:	63

1. May include only two of the following: CRJ 106, 107, 108, 201, 206, 207, 208, 210, 212, 216, 217, 218, 252 and/or 254. Otherwise, any college course (except those CRJ courses which may not be used as electives and COR, EMG, HFA, HSD, LEC, PSC, PSD, and PEH Aquatics/Activities) may be included as electives.

Criminal Justice Program (A.A.S.)

First Semester	Credits
COM 101 Interpersonal Communication OR COM 102 Public Speaking	3
CRJ 101 Justice System	3
CRJ 122 Introduction to Corrections	3
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
SOC 103 Introductory Sociology	3
Physical Education Activity	1
Total Credits:	16

Second Semester

CRJ 112 Introduction to Law Enforcement	3
ENG 104 Freshman Composition and Literature II	3
PSY 103 General Psychology	3
SOC 204 Social Problems <OR>	
SOC 207 Sociology of Deviance	3
Criminal Justice elective	3
Physical Education Activity	1
Total Program Credits:	16

Third Semester

CRJ 102 Introduction to Criminal Law	3
CRJ 142 Criminal Investigation	3
Criminal Justice elective	3
Health elective	1
Mathematics/Science elective	3-4
General elective ¹	3
Total Credits:	16-17

Fourth Semester

Fourth Semester	Credits
CRJ 240 Capstone Course in Criminal Justice	1
Criminal Justice electives	9
Mathematics/Science elective	3-4
General elective ¹	3
Total Credits:	16-17
Total Program Credits:	64-66

1. May include only one of the following: CRJ 106, 107, 108, 201, 206, 207, 208, 210, 212, 216, 217, 218, 252. Otherwise, any college course (except those CRJ courses which may not be used as electives and COR, EMG, HFA, HSD, LEC, PSC, PSD, and PEH Aquatics/Activities) may be included as electives.

Early Child Care (Certificate)

OFFICE: MAWHINNEY HALL, ROOM 280
PHONE: (315) 498-2341
EMAIL: OCCINFO@SUNYOCC.EDU

If your goal is to work with children from birth through age eight in day care, pre-school, or school age programs, the one-year Early Child Care certificate program may be of interest to you. You will gain understanding of child development, be able to plan developmentally appropriate activities and fulfill the responsibilities of assistant teachers.

You may enroll for this program on a part-time or full-time basis. It is recommended that students in full-time jobs take no more than two courses per semester.

In the Early Child Care program you will gain knowledge of child development, learn to plan developmentally appropriate activities and practice the responsibilities of an assistant teacher.

Essential Skills and Dispositions

The following skills and dispositions, with or without reasonable accommodations, are expected of students enrolled in the Early Child Care Certificate program.

1. Emotional stability and psychological health to work with children, families, clients, colleagues and college personnel.
2. Interpersonal skills sufficient to establish a professional relationship with individuals and families from a variety of cultural, social, emotional, and intellectual backgrounds.
3. Effective written and oral communication skills.
4. Critical thinking for assessment and decision making in field placement.
5. Ability to carry out duties and responsibilities in the Early Childhood fieldwork placement, including observation and assessment; monitoring safety needs; moving quickly to ensure children's safety; and lifting children, equipment and supplies up to 50 pounds.
6. Sufficient stamina to carry out the duties and responsibilities in the Early Childhood fieldwork placement.
7. Character dispositions such as honesty, integrity, caring and empathy.

First Semester

First Semester	Credits
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
PSY 103 General Psychology	3
Liberal Arts elective	3
EDU 155 Development/Care of Infants and Toddlers and	
EDU 158 Infant/Toddler Development < OR >	
EDU 180 Intro to Early Childhood Education and	
EDU 182 Child Growth and Development	6
Total Credits:	15

Second Semester	
EDU 183 Observation and Assessment of Young Children	3
EDU 184 Early Childhood Field Instruction and Seminar I	3
EDU 280 Language and Literacy Development in Young Children	3
EDU 281 Curriculum Development	3
Liberal Arts elective	3
Total Credits:	15
Total Program Credits:	30

Electrical Engineering Technology (A.A.S.)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 131
 PHONE: (315) 498-2451
 EMAIL: OCCINFO@SUNYOCC.EDU

Today's emphasis on sophisticated electronic hardware techniques requires that the two-year Electrical Engineering Technology (ELT) graduate be well schooled in fundamental concepts relating to AC and DC circuit analysis, electronics, special devices, power, communications, as well as digital hardware and software techniques.

As an engineering technician, you will work with engineers in the area of research and development, design, and modern manufacturing methods.

As an ELT student at Onondaga, you'll receive a solid background in the liberal arts in addition to courses in your field of specialization. Onondaga's faculty have relevant industrial experience in addition to advanced engineering degrees.

To enroll in the Electrical Engineering Technology A.A.S. program, you will need two years of high school mathematics. Once you graduate with an A.A.S. degree in Electrical Engineering Technology from Onondaga, you will be prepared to seek employment opportunities in the field or pursue a bachelor's degree (B.S.). A wide range of employment possibilities exists in the area of design, manufacturing, sales, and service. If you wish to pursue a B.S. degree in engineering technology you can be accepted as a third-year student at many four-year colleges.

Graduation Requirement: All students in the Electrical Technology program must have a minimum grade of C- in the following courses: ELT 141, 142, 161, 261 and CMT 171, 190.

Please note: If you wish to pursue a B.S.E.E. degree in electrical or computer engineering, you should consult with an advisor.

This program is accredited by Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC of ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 Telephone: (410) 347-7700. See page 2.

First Semester	Credits
CMT 101 Introduction to Computers and Applications	4
ELT 141 Circuits I	4
MAT 143 Pre-Calculus with Trigonometry	4
CMT 171 Digital Electronics	4
Physical Education Activity	1
Total Credits:	17

Second Semester	Credits
CMT 190 Introduction to Microprocessors	4
ELT 161 Electronic Circuits I	4
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
Mathematics elective ¹	4
Physical Education Activity	1
Health elective	1
Total Credits:	17

Third Semester	Credits
ELT 261 Electronic Circuits II	4
Electrical Engineering Technology elective ²	4
PHY 103 General Physics I ³	4
ENG 104 Freshman Composition and Literature II	3
Social Science elective ⁴	3
Total Credits:	18

Fourth Semester	Credits
ELT 142 Circuits II	4
ELT 265 Communications Systems I	4
ELT/PHI 120 Ethics in Engineering and Technology	3
Career-related elective ⁵	3-4
Total Credits:	14-15
Total Program Credits:	66-67

- Notes:**
1. Mathematics elective must be approved by the student's advisor. Suggested elective courses: MAT 151 or 161.
 2. Suggested ELT elective courses: ELT 258, 285, or a course approved by the student's advisor.
 3. Student may take PHY 103 or 105. Only one of these will be credited toward the degree requirement.
 4. Applicable Social Sciences include ANT, ECO, HIS, POS, PSY and SOC courses. Elective must be approved by the student's advisor. Recommended courses are included in the GLAD (Global Awareness and Diversity) list.
 5. Elective must be approved by the student's advisor.

Electronic Media Communications (A.A.S.)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 150
PHONE: (315) 498-2321
EMAIL: OCCINFO@SUNYOCC.EDU

The Onondaga Electronic Media Communications A.A.S. program prepares you for a career in the varied fields of electronic media communications and/or continuation at a four-year institution.

Classes are taught in state-of-the-art production facilities. These include a multi-station non-linear Avid digital video editing lab, a multi-station digital audio lab and a professional television studio outfitted with equipment from such leading manufacturers as Sony, Grass Valley and Chyron. Our studio equipment is the same you will find at area television stations and networks. For example, you will learn to operate the same television graphics generator that ESPN uses for its NFL telecasts. And we operate our Internet radio station with the same music scheduling software that's used by all ClearChannel and Galaxy-owned radio stations throughout Central New York. In addition to our digital labs, we have linear video editing and radio/audio production studios.

Individual attention is a key component to the Onondaga EMC experience. Classes are kept to a manageable size to allow extensive hands-on training. As an EMC student, you will obtain the fundamental skills necessary to perform as an electronic media professional. Through coursework, you will learn to develop, design, write, produce and direct both independent and team-based programs and projects. Faculty work closely with students to ensure a deep understanding of the creative, intellectual and technical aspects of the production process. At the same time, you will receive a well-rounded education that incorporates the broader historical, ethical, and business aspects of media and its impact on both the individual and a global society. You may also take advantage of real-world opportunities through an internship. The EMC department maintains close ties with area media outlets that provide internships for Onondaga EMC students, including the radio and broadcast television stations and cable system in this market.

In addition to academic credentials, EMC faculty have extensive experience in broadcasting and electronic media and all continue to work in the field, allowing the department to keep pace with expanding technologies in the professional work place and new trends in the media industry. An advisory board comprised of commercial and public radio and TV broadcasters, cable TV producers, sound engineers and video production company professionals aids the department in keeping the curriculum current with the vocational needs of the industry. Onondaga Electronic Media Communications graduates are employed in radio and

television stations, cable TV companies, sound recording facilities, audio/video production companies, advertising agencies and the entertainment industry in Central New York and throughout the United States. Graduates have transferred to such prestigious programs as the S.I. Newhouse School of Public Communications at Syracuse University and the Park School of Communications at Ithaca College, and institutions such as Emerson College, New York University, and SUNY institutions, including Binghamton University.

Choose one of three specializations:

1. Digital Media Specialization:

As the field of media becomes more integrated with digital technology, this specialization provides students with a breadth of knowledge of the many phases of digital media production and delivery processes. You will receive an inclusive education studying multiple disciplines: the Internet and managing Web pages and servers, computer graphics and multimedia design, digital audio and video production, and DVD authoring and media streaming. Students in the Digital Media Specialization are prepared for careers in:

- Graphic design for television and the Internet
- Television station creative services and promotions production
- Video editing
- DVD authoring
- Producing audio and video materials for distribution via the Internet

You may also opt to transfer to a four-year institution that offers advanced training in multi-media production and delivery.

2. Radio/Audio Production Specialization:

If your interests lie in the career field of audio/radio electronic media, this specialization will prepare you for a career leading to:

- On-air announcing
- Radio news reporting
- Radio programming
- Radio promotions
- Sound recording
- Sound design and production

Success in this program will allow you to obtain an entry-level position as an on-air announcer, radio production person, sound recording production assistant, radio programming/ promotion assistant, audio mixing console operator, or audio editor.

You may also choose to transfer to a four-year school that offers advanced training in either audio and radio production or sound recording technology. Audio Specialization majors also produce, write and create programming for Onondaga's Internet radio station.

3. Television/Video Production Specialization:

If you'd like to pursue a career in television broadcasting or video production, this specialization will prepare you for a career in:

- Multi-camera TV studio producing and directing
- TV news and sports producing and reporting
- Film-style video field production and editing
- Commercial, corporate or educational video production

Your A.A.S degree will provide you with the skills needed to gain an entry-level position in TV studio production, video field production and post production, news videography and editing. You may also choose to transfer to a four-year school that offers advanced training in producing, announcing and performing for television, video and film.

Retention Requirements for all EMC specializations

1. Students must earn a minimum grade of C in all courses with an EMC prefix and maintain an overall G.P.A. of 2.0 to remain in good standing in the program.
2. Students who fall below a 2.0 G.P.A. will be placed on departmental probation. Students on departmental probation will have one semester to increase their G.P.A. to the required level. Failure to do so will result in loss of matriculation.
3. Students may attempt an EMC course twice. An attempt is interpreted as a grade entered on a transcript. This would include grades of "W" or "X". Following two unsuccessful attempts at any EMC course, the student may be de-matriculated from the EMC curriculum.
4. EMC courses are valid as prerequisites for continuation of courses for three academic years. For example, if a student successfully completed EMC 144 in the fall 2005 semester, the next course in the sequence (EMC 155) must be taken no later than the spring 2008 semester. Accelerating changes in the electronic media industry and ever-increasing advances in technology mandate that establishing a limit of three academic years for EMC courses to be valid as prerequisites is necessary to ensure that students begin upper-level courses with a skill level that is current and relevant.

Graduation Requirements

1. All requirements for the A.A.S. degree as outlined in this catalog.
2. A final grade of C or higher must be achieved in any course with an EMC prefix.

EMC: Digital Media (A.A.S.)

First Semester	Credits
EMC 101 Intro Electronic Media	3
EMC 144 Audio/Video Production: An Introduction	4
CIS 100 Principles of Information Systems	3
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
Mathematics/Science elective	3-4
Physical Education Activity	1
Total Credits:	17-18

Second Semester

EMC 155 Digital Audio Production	3
EMC 169 Video Field Production	3
ART 142 Intro to Computer Graphics	3
CIS 130 Foundations of the Internet	3
ENG 157 Electronic Media Writing	3
Physical Education Activity	1
Total Credits:	16

Third Semester

EMC 259 Digital Video Editing	4
EMC 265 Sound Design and Production for Digital Media	3
ENG 104 Freshman Composition and Literature II	3
CIS 230 Management Web Pages/Servers	3
General elective	3
Health elective	1
Total Credits:	17

Fourth Semester

EMC 276 Multimedia Streaming	3
EMC 286 DVD Authoring	4
ART 224 Design for Multimedia	3
Social Science elective	3
General elective	3
Total Credits:	16
Total Program Credits:	66-67

EMC: Radio/Audio Production (A.A.S.)

First Semester	Credits
EMC 101 Intro Electronic Media	3
EMC 144 Audio/Video Production: An Introduction	4
CIS 100 Principles of Information Systems	3
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
COM 102 Public Speaking	3
Physical Education Activity	1
Total Credits:	17

Second Semester

EMC 155 Digital Audio Production	3
EMC 160 Radio Station: An Introduction	3
EMC elective	3-4
ENG 157 Electronic Media Writing	3
Social Science elective	3
Physical Education Activity	1
Total Credits:	16-17

Third Semester

EMC 260 Radio Station Operations	3
EMC 265 Sound Design & Prod. for Digital Media	3
ENG 104 Freshman Composition and Literature II	3
EMC elective	3-4
Mathematics/Science elective	3-4
Health elective	1
Total Credits:	16-18

Fourth Semester

EMC 275 Producing for Radio	4
Social Science elective	3
General elective	3
General elective	3
General elective	3
Total Credits:	16
Total Program Credits:	65-68

EMC: Television/Video Production (A.A.S.)

First Semester

	Credits
EMC 101 Intro Electronic Media	3
EMC 144 Audio/Video Production: An Introduction	4
CIS 100 Principles of Information Systems	3
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
COM 102 Public Speaking	3
Physical Education Activity	1
Total Credits:	17

Second Semester

EMC 155 Digital Audio Production	3
EMC 159 TV Studio Video Production	4
EMC 169 Video Field Production	3
Social Science elective	3
ENG 157 Electronic Media Writing	3
Physical Education Activity	1
Total Credits:	17

Third Semester

EMC 249 Electronic News Gathering: An Intro	3
EMC 259 Digital Video Editing	4
ENG 104 Freshman Composition and Literature II	3
EMC elective	3-4
Mathematics/Science elective	3-4
Health elective	1
Total Credits:	17-19

Fourth Semester

EMC 269 TV News Production	4
EMC 289 TV Producing and Directing	4
Social Science elective	3
General elective	3
General elective	3
Total Credits:	17
Total Program Credits:	68-70

Engineering Science (A.S.)

OFFICE: FERRANTE HALL, ROOM 378
PHONE: (315) 498-2439
EMAIL: CAMEROTE@SUNYOCC.EDU

Engineering Science is a two-year college-parallel curriculum offering the basic first two years of a bachelor-level engineering program. By successfully completing the requirements for this curriculum, you can expect to transfer to a four-year engineering college to continue work in one of many branches of engineering (e.g., aeronautical, chemical, electrical, mechanical).

To apply for this program, you should be in the upper third of your high school graduating class, and should have an interest, aptitude and good high school performance in mathematics and the physical sciences. A minimum preparation of three and one-half years of mathematics, chemistry, and physics is expected.

By successfully completing an A.S. degree in Engineering Science, you may transfer to a four-year engineering institution with junior-level status. This program has general articulation agreements between the two-year Engineering Science Association and the Association of Engineering Colleges of New York State. These two associations represent the two-year engineering colleges and the four-year institutions, respectively.

First Semester

	Credits
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
MAT 161 Calculus I	4
CHE 103 Chemistry I	4
PHY 105 Physics I	4
Health elective	1
Physical Education Activity	1
Total Credits:	17

Second Semester

ENG 104 Freshman Composition and Literature II	3
MAT 162 Calculus II	4
CHE 104 Chemistry II	4
PHY 205 Physics II	4
Technical elective ¹	3
Total Credits:	18

Third Semester

MAT 263 Calculus III	4
PHY 206 Physics III	4
ENS 207 Engineering Mechanics I (Statics)	3
Social Science elective ²	3
Technical elective ¹	3-5
Total Credits:	17-19

Fourth Semester

MAT 264 Differential Equations	4
ENS 208 Engineering Mechanics II (Dynamics)	3
Advanced Programming Language	3
Social Science elective ²	3
Technical elective ¹	3-5
Physical Education Activity	1
Total Credits:	17-19
Total Program Credits:	69-73

Notes:

- Technical electives:
MAT 241 Linear Algebra
ENS 201 Digital Logic Design
ENS 210 Electrical Circuit Analysis
ENS 212 Mechanics of Materials
MET 261 Introduction to CAD
CHE 205 Organic Chemistry I
CHE 206 Organic Chemistry II

A non-technical elective may be allowed with approval of curriculum advisor.

- ECO 203 and ECO 204 recommended.

Environmental Technology: Geoscience (A.A.S.)

OFFICE: FERRANTE HALL, ROOM 369
PHONE: (315) 498-2722
EMAIL: MCANINCB@SUNYOCC.EDU

The Environmental Technology: Geoscience A.A.S. degree is designed to provide students with the skills in statistics, graphical and mathematical analysis and technical writing necessary for the analysis and preparation of scientific reports. Students will be using the latest soil and water testing/monitoring technology to practice proper sampling procedures and documentation methods. They will also learn to apply basic computer skills to report writing, to the use of instrumental software, and to mapping and GIS applications. In addition, students will complete the 40-hour OSHA certification program.

First Semester	Credits
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
CHE 103 General Chemistry I	4
MAT 141 Pre-calculus Algebra, MAT 143 or MAT 161	3-4
ENV 101 Introduction to Environmental Technology	4
ENV 110 Field Experience in Environmental Technology - Geoscience	1
Total Credits:	15-16

Winter Intersession

ENV 165 Hazardous Waste Operations and Emergency Response	2
Total Credits:	2

Second Semester

ENG 104 Freshman Composition and Literature II	3
CHE 104 General Chemistry II	4
MAT 118 Empirical Introduction to Statistics, MAT 151 or MAT 162	3-4
CIS 100 Principles of Information Systems	3
Social Science elective	3
Total Credits:	16-17

Third Semester

PHY 103 General Physics I	4
ENV 103 Introduction to GIS	3
ENG 259 Technical Report Writing Science elective ¹	3-4
Health elective	1
Physical Education Activity	1
Total Credits:	15-16

Fourth Semester

ENV 201 Internship in Environmental Technology/Geoscience	2
CHE 203 Quantitative Analysis	4
GEO 205 Hydrology	4
POS 260 Environmental Regulation Science elective ¹	3-4
Physical Education Activity	1
Total Credits:	17-18
Total Program Credits:	65-69

Notes:

- Science electives: GEO 103, 104, 105, 106; PHY 104; BIO 151, 152, 131; CHE 205, 206.

Fire Protection Technology (A.A.S.)

OFFICE: J. STANLEY COYNE HALL, ROOM 100
PHONE: (315) 498-6046
EMAIL: OCCINFO@SUNYOCC.EDU

The increasing complexity and technological advances in today's society have placed an increased demand for extensive and in-depth education and training on those individuals involved in the delivery of emergency fire services, fire protection and safety and associated professions. Sophisticated fire protection equipment; advancements in building construction and materials; new concepts in emergency fire services, tactics, and administration; hazardous materials control; and effective prevention, safety and risk analysis planning are a few of the areas in which advanced training and specialized education have become a requirement.

The duties and responsibilities of the modern fire-fighter and those involved in the design, delivery and management of fire protection services require a continual upgrading of these skills and awareness of new developments and trends. Because of the increasing complexities in fire technology tactics and management/command skills, and the resultant emphasis on advanced education and expertise, the Fire Protection Technology A.A.S. program was originally developed at the request of the Syracuse Fire Department. The program has subsequently grown to encompass not only the thousands of career and volunteer firefighters and fire service personnel within the Central New York region, but also those involved in industrial/plant protection, safety training and inspection, and building construction and design, as well as people in the insurance, law enforcement, and codes and standards professions.

The objective of this program is to impart the fire skills, knowledge and understanding necessary to handle the challenges and demands of the fire protection profession. The program emphasizes effective fire awareness, tactics, and operations; qualities necessary for fire administration, command and managerial positions; and the development of advanced skills to allow you to assume a contributing role in the delivery of fire protection services.

A "bunk-in" program has been established for those students who live outside Onondaga County and who enroll in the Fire Protection program. Students are given free housing in one of the participating local volunteer fire stations. In turn, the students provide staffing for emergency responses and perform light maintenance work for the host department.

Fire protection courses are also offered through a cable television network. Programming is live with two-way interaction between students and instructors available via local telephone systems. If you are associated with a fire department which would be interested in pursuing instruction for your personnel in this manner, we invite you to contact us.

Scholarships are periodically available through state and local fire service organizations, offering financial assistance for fire protection students.

Liberal Arts Component	Credits
ENG 103-104 Freshman Composition and Literature I and II (ENG 099, a non-credit course, may be required.)	6
Mathematics elective ¹	3
SOC 103 Introduction to Sociology	3
POS elective (POS 102 recommended)	3
PSY 103 General Psychology	3
General elective	3
Total Credits:	21

Science Component²

FPT 158-159 Chemistry for Fire and Chemistry for Hazardous Materials	6
FPT 160 Physics for Fire	3
Total Credits:	9

Fire Protection Technology Component²

FPT 150 Introduction to Fire Protection ³	3
FPT 151 Building Construction	3
FPT 152 Fire Fighting Tactics and Strategy	3
FPT 153 Legal Aspects of Fire Protection	3
FPT 155 Hazardous Materials	3
FPT 156 Fire Hazards and Their Control	3
FPT 157 Fire Hydraulics	3
FPT 162 Introduction to Safety	3
FPT 163 Introduction to Safety Management	3
FPT 250 Fire Department Administration	3
FPT 251 Fire Protection Systems	3
FPT 252 Fire Investigation	3
FPT 253 Fire Prevention and Investigation	3
Total Credits:	30²
Total Program Credits:	60

Notes:

1. Any credit-bearing MAT course will satisfy degree requirements.
2. FPT courses are offered only in evening.
3. Select FPT courses to equal 30 credit hours from the choices listed. FPT 150 is required.

Fire Protection Technology (Certificate)

OFFICE: J. STANLEY COYNE HALL, ROOM 100
 PHONE: (315) 498-6046
 EMAIL: OCCINFO@SUNYOC.EDU

If you wish to receive academic recognition and advance your career and promotional opportunities, a 30-credit-hour certificate program in Fire Protection Technology may be of interest to you. It was developed to provide academic recognition for the content of courses rather than the completion of the A.A.S. degree in Fire Protection Technology.

Completion of this certificate may enable transfer to the A.A.S. program. Please check with your advisor.

	Credits
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
Social Science electives	6
Fire Protection Technology or Safety electives	18
General elective ¹	3
Total Program Credits:	30

Notes:

1. Any three credit college course (except Physical Education Activity/Aquatics) may be used to fulfill this elective requirement. Electives are chosen in consultation with an advisor.

Health Information Technology (A.A.S.)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 324
PHONE: (315) 498-2435
EMAIL: OCCINFO@SUNYOCC.EDU

As a health information technician, you will be a member of the allied health team specifically trained in the technical areas of health information. These areas include the collection, analysis, dissemination, and maintenance of health care and patient-related data including medical records. Health information technicians are also trained in basic management and supervisory principles for health information services, quality improvement and utilization management.

The Health Information Technology program at Onondaga will prepare you in the areas of:

- basic information principles;
- numbering, filing and retrieval systems in health care information;
- review of the health care record for accuracy and completeness;
- computer applications in health information management;
- legal aspects of maintaining and releasing health care information;
- health care legislation and its impact on health information services;
- standardized coding procedures;
- DRG'S and other reimbursement systems;
- utilization management;
- quality improvement and peer review functions;
- management and supervisory issues in health information services;
- analysis and display of health care data;
- maintaining requirements/standards for accrediting and certifying agencies;
- calculating and displaying health care statistics.

Employment opportunities continue to expand in ambulatory care, long-term care, home care, HMOs, psychiatric facilities, industrial clinics, physicians' offices, law offices, insurance companies, sales of health-related products and services, residential care, and state and federal health agencies as well as a number of other areas.

Professional Practice

The Health Information Technology program at Onondaga will allow you to put classroom theory into actual practice through clinical practicum courses. You will be required to complete three clinical practicums.

Supervised Professional Practice I, for one credit hour, is taken in the second semester and consists of placements in a minimum of five clinical sites for a total of 40 hours.

Supervised Professional Practice II, for three credit hours, is taken at the end of the third semester. This involves spending three weeks, full time, at a clinical site gaining experience in the basic technical aspects of health information services.

Supervised Professional Practice III, for three credit hours, is taken in the final semester. This also involves spending three weeks, full time, at a clinical site and focuses on management and supervisory issues in health information services.

You will be required to submit documentation of a current physical examination, PPD and immunizations prior to being placed in a clinical site. Additional expenses may be incurred during clinical practicums due to the need for transportation and proper work attire. Such expenses are the student's responsibility.

Admissions Requirements

The following requirements must be met before you can be considered for admission to the HIT program:

- a high school diploma or equivalent
- one year of high school algebra or MAT 087 (non credit) at Onondaga
- one year of high school biology or one semester of college biology
- grade of C or better for all required courses used to meet admission requirements

Program: The A.A.S. degree in Health Information Technology emphasizes concentrated studies in health information supported by clinical experiences in cooperating health care facilities and agencies. The HIT program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). Graduates qualify for registration in the health information technology field by passing the national credentialing examination required by AHIMA. Graduates may transfer to a four-year college to pursue a baccalaureate degree in health information management.

Graduation Requirements: BIO 171, BIO 172, BIO 221 and all required HIT courses completed with a C or higher.

First Semester	Credits
ENG 103 Freshman Composition I (ENG 099, a non-credit course, may be required.)	3
BIO 171 Anatomy and Physiology I	4
HIT 101 Introduction to Health Information Technology	3
HIT 102 Legal Aspects of Health Information	3
HIT 120 Medical Terminology	3
Physical Education Activity	1
Total Credits:	17

Second Semester	
ENG 104 Freshman English II	3
BIO 172 Anatomy and Physiology II	4
CIS 100 Principals of Information Systems	3
HIT 103 Information Systems in Non-Hospital Settings	3
HIT 110 Coding and Classification Systems I	3
HIT 223 Supervised Professional Practice I	1
Total Credits:	17

Third Semester	
BIO 221 Pathology	3
HIT 201 Health Statistics	3
HIT 210 Coding and Classification Systems II	4
HIT 225 Supervised Professional Practice II	3
Specified elective	3
Health elective	1
Total Credits:	17

Fourth Semester	
HIT 202 Management of Health Information Technology	3
HIT 205 Computer Applications in Health Information	3
HIT 215 Healthcare Reimbursement	3
HIT 227 Supervised Professional Practice III	3
HIT 230 Advanced Seminar	1
General elective	3
Physical Education Activity	1
Total Credits:	17
Total Program Credits:	68

Homeland Security and Disaster Preparedness (A.A.S.)

OFFICE: J. STANLEY COYNE HALL, ROOM 100
PHONE: (315) 498-6046
EMAIL: OCCINFO@SUNYOCC.EDU

The Homeland Security and Disaster Preparedness A.A.S. degree prepares graduates to react appropriately and professionally to situations in which the public might be put at risk by natural or man-made emergencies. Students are trained to assess, plan, mitigate, command and control professional responses to emergency situations. They also are trained to coordinate and evaluate the efforts of resource and operations personnel who deal with emergency situations and their aftermaths.

The Homeland Security and Disaster Preparedness degree has been developed in conjunction with the Federal Department of Homeland Security, the Federal Emergency Management Agency (FEMA), and the New York State Emergency Management Office. Further, the degree addresses the current organization of emergency management, such as the National Incident Management System (NIMS) and the National Response Plan, and reflects the current approach to providing emergency management services.

First Semester	Credits
COM 101 Interpersonal Communication	3
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
HSD 150 Principles of Emergency Management	3
HSD 155 Intro to Public Safety Response	3
Social Science elective	3
Physical Education Activity	1
Total Credits:	16

Second Semester	
ENG 104 Freshman Composition and Literature II	3
Science elective ¹	3-4
POS 102 State/Local Politics	3
HSD 178 Emergency Response Planning	3
Homeland Security and Disaster Preparedness elective / Curriculum-related elective	3
Total Credits:	15-16

Third Semester	Credits
CIS 100 Principles of Information Systems	3
HSD 252 Disaster Response and Recovery	3
Homeland Security and Disaster Preparedness electives / Curriculum-related electives	6
Health elective	1
Mathematics elective ²	3
Total Credits:	16

Fourth Semester	
HSD 280 Emergency Exercise Program Management	3
HSD 283 Practical Applications of Incident Management	3
Homeland Security and Disaster Preparedness electives / Curriculum-related electives	9
Physical Education Activity	1
Total Credits:	16
Total Program Credits:	63-64

Notes:

1. While any 3- or 4-credit science course will satisfy degree requirements, SCI 100 Meteorology is strongly recommended.
2. Any credit-bearing MAT course will satisfy degree requirements.

Hospitality Management (A.A.S.)

OFFICE: GORDON STUDENT CENTER, ROOM 107A
 PHONE: (315) 498-2231
 EMAIL: OCCINFO@SUNYOCC.EDU

Hospitality- Showing Kindness to visitors

Management – The organizing and controlling of business

Growth in the Hospitality Industry continues at an undaunted pace with endless career possibilities. The Hospitality Management program offers four different specializations to give students the skills necessary to excel in this exciting field:

- Culinary Management
- Food Service / Institutional Management
- Hotel Management
- Restaurant Management

All Hospitality Management students take a group of core courses that develop skills and knowledge in Sanitation, Nutrition, Basic Culinary Skills and Serving, Restaurant Operation, and Hospitality and Human Resources Management. Students are also required to complete 400 hours of work experience in the Hospitality Industry while matriculated in the Hospitality Management program. Students are encouraged to consider the Walt Disney World College Program, not only to fulfill the work requirements but for the experience of working for a world-renowned organization.

Additional expenses will be incurred for an approved uniform and shoes, and optional trips to the International Hotel/Motel and Restaurant show in NYC in the fall and a tour of the hospitality industry in Las Vegas in the spring.

Specialization: Culinary Management

If a fast pace is your pace, and you have never been in a kitchen that was too hot, then consider a career as a commercial cook or kitchen manager, working in all areas of the Hospitality Industry. Your passion for cooking and your creative edge will be sharpened by course work in the Culinary Management specialization and the advanced skills classes in European bread baking, Pastries, and Garde manager. Course work in controlling costs, menu planning, equipment selection, food purchasing and catering prepares you not only to cook but to be in charge of commercial kitchens.

Specialization: Food Service / Institutional Management

The Food Service / Institutional Management specialization includes course work in diet therapy, menu design, food and equipment purchasing, and cost control which will help you in a career as a diet technician, food service manager or dietary supervisor. People in these professions are part of a team that serves nutritious, wholesome and tasty food to the public in child care centers, schools, hospitals, nursing homes, business and industry facilities, and senior centers.

Specialization: Hotel Management

Country Inns, large metropolitan hotels, and facilities any size in between all need a management team to help them meet their guest expectations. The Hotel Management specialization includes courses in housekeeping and properties management, front office management and events coordinating. Career choices include front office supervisor or manager, housekeeping supervisor, assistant hotel manager, hotel manager, and events/convention coordinator.

Specialization: Restaurant Management

If you are interested in managing a restaurant, owning your own restaurant, managing a private or public club, or managing a catering operation, the Restaurant Management specialization will give you skills for success in cost control, purchasing food, menu writing, restaurant design, and catering special events.

Culinary Management (A.A.S.)

First Semester	Credits
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
CIS 100 Principles of Information Systems	3
FSA 100 Food Service Sanitation	2
FSA 103 Basic Food Preparation	4
FSA 112 Creative and Functional Culinary Presentation	1
Liberal Arts elective (see advisor)	3
Total Credits:	16

Second Semester

ENG 104 Freshman Composition and Literature II	3
BUS 102 Mathematics of Business and Finance	3
FSA 102 Basic Nutrition	3
FSA 104 Quantity Foods: Preparation, Production and Service	4
FSA 114 Patisserie I	1
Physical Education Activity (see advisor)	1
Total Credits:	15

Third Semester

Third Semester	Credits
BUS 105 Financial Accounting	3
FSA 114 Artisanal Bread Baking	1
FSA 207 Menu Planning and Equipment Selection	3
FSA 210 Catering and Advanced Culinary Arts	4
Liberal Arts elective (see advisor)	3
Science elective (see advisor)	3-4
Total Credits:	17-18

Fourth Semester

FSA 201 Food Service Management	3
FSA 202 Food Service Cost Controls	3
FSA 204 Food Service Purchasing, Handling, and Storage	3
Liberal Arts elective (see advisor)	3
Science elective (see advisor)	3-4
Physical Education Activity (see advisor)	1
Total Credits:	16-17
Total Program Credits:	64-66

Food Service Management (A.A.S.)

First Semester

	Credits
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
CIS 100 Principles of Information Systems	3
FSA 100 Food Service Sanitation	2
FSA 103 Basic Food Preparation	4
Liberal Arts elective (see advisor)	3
Total Credits:	15

Second Semester

ENG 104 Freshman Composition and Literature II	3
BUS 102 Mathematics of Business and Finance	3
FSA 102 Basic Nutrition	3
FSA 104 Quantity Foods: Preparation, Production and Service	4
Liberal Arts elective (see advisor)	3
Physical Education Activity (see advisor)	1
Total Credits:	17

Third Semester

BUS 105 Financial Accounting	3
FSA 206 Diet Therapy	3
FSA 207 Menu Planning and Equipment Selection	3
Specialization elective ¹	3-4
Science elective	3-4
Total Credits:	15-17

Fourth Semester

FSA 201 Food Service Management	3
FSA 202 Food Service Cost Controls	3
FSA 204 Food Service Purchasing, Handling, and Storage	3
Liberal Arts elective (see advisor)	3
Science elective (see advisor)	3-4
Physical Education Activity (see advisor)	1
Total Credits:	16-17
Total Program Credits:	63-66

Notes:

1. Food Service Management electives may be chosen from the following: BUS 243, FSA 210, HTL 234, PSY 204, SOC 209, SOC 211, and SPA 101.

Hotel Management (A.A.S.)

First Semester

	Credits
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
CIS 100 Principles of Information Systems	3
FSA 100 Food Service Sanitation	2
FSA 103 Basic Food Preparation	4
HTL 230 Housekeeping and Properties Management	3
Total Credits:	15

Second Semester

ENG 104 Freshman Composition and Literature II	3
BUS 102 Mathematics of Business and Finance	3
FSA 102 Basic Nutrition	3
FSA 104 Quantity Foods: Preparation, Production and Service	4
Liberal Arts elective (see advisor)	3
Physical Education Activity (see advisor)	1
Total Credits:	17

Third Semester

BUS 105 Financial Accounting	3
HTL 234 Meeting Management Planning Specialization elective ¹	3-4
Liberal Arts elective (see advisor)	3
Science elective (see advisor)	3-4
Total Credits:	15-17

Fourth Semester

BUS 106 Managerial Accounting	3
FSA 201 Food Service Management	3
HTL 232 Front Office Management	3
Liberal Arts elective (see advisor)	3
Science elective (see advisor)	3-4
Physical Education Activity (see advisor)	1
Total Credits:	16-17
Total Program Credits:	63-66

Notes:

1. Hotel Management electives may be chosen from: BUS 121, BUS 203, BUS 212, BUS 243, FSA 210, SOC 211, and SPA 101.

Hotel Management (A.A.S.)

First Semester

	Credits
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
CIS 100 Principles of Information Systems	3
FSA 100 Food Service Sanitation	2
FSA 103 Basic Food Preparation	4
Liberal Arts elective (see advisor)	3
Total Credits:	15

Second Semester

ENG 104 Freshman Composition and Literature II	3
BUS 102 Mathematics of Business and Finance	3
FSA 102 Basic Nutrition	3
FSA 104 Quantity Foods: Preparation, Production and Service	4
Liberal Arts elective (see advisor)	3
Physical Education Activity (see advisor)	1
Total Credits:	17

Third Semester

	Credits
BUS 105 Financial Accounting	3
FSA 207 Menu Planning and Equipment Selection	3
FSA 210 Catering and Advanced Culinary Arts	4
Science elective (see advisor)	3-4
Specialization elective ¹	3
Total Credits:	16-17

Fourth Semester

FSA 201 Food Service Management	3
FSA 202 Food Service Cost Controls	3
FSA 204 Food Service Purchasing, Handling, and Storage	3
Liberal Arts elective (see advisor)	3
Science elective (see advisor)	3-4
Physical Education Activity (see advisor)	1
Total Credits:	16-17
Total Program Credits:	64-66

Notes:

¹. Restaurant Management electives may be chosen from: BUS 121, BUS 243, FSA 112*, FSA 114*, FSA 116*, HTL 234, SOC 211, and SPA 101. * Taken together for a 3-credit total

Human Services (A.S.)

OFFICE: MAWHINNEY HALL, ROOM 280
PHONE: (315) 498-2341
EMAIL: OCCINFO@SUNYOCC.EDU

Whether you are a recent high school graduate or an adult student with an interest in social work, substance abuse counseling, early childhood education, child care, or inclusive special education, the Human Services A.S. will be of interest to you. Upon completion of your A.S. degree, you will be prepared to obtain an entry-level job in a setting related to your specialty area, or you may choose to continue your education through transfer to a four-year institution.

There are four specializations in the Human Services A.S.: Alcohol and Substance Abuse Counseling, Social Work, Inclusive Special Education, and Early Childhood Education.

All students will take two introductory courses specific to the specialization they select. Students planning to transfer after graduation will take four 3-credit courses and one 3-credit fieldwork course. Students planning to obtain an entry-level job fol-

lowing graduation will take three 3-credit courses and two 3-credit fieldwork courses in their chosen specialization.

A personal interview may be required before you are admitted to the Human Services program. If you choose to transfer into the Human Services program from another Onondaga curriculum, you must have at least a 2.0 cumulative average. Enrollment and continuation in the Human Services program are subject to faculty approval. Your academic and professional competence will be periodically reviewed by the faculty. In order to graduate, you must achieve a grade of C or better in the required human services courses.

Special program costs include bus or car expenses for transportation to and from the field work sites. You may be required to have a medical examination, a tuberculin test, a background check, and fingerprinting before beginning your field work internship.

Specialization: Alcohol and Substance Abuse Counseling

The electives in this area are designed to provide an understanding of bio-psychosocial considerations in alcohol and substance abuse. Other areas of focus are the disease model and harm reduction concepts of alcoholism and addictions treatment, and the development of specific skills in providing individual and group counseling for addicted populations. Four out of a possible five electives are required for this specialization.

Courses within this area may be used toward the requirements to qualify as a Credentialed Alcoholism and Substance Abuse Counselor (CASAC) in New York state, or for transfer to a four-year college.

Specialization: Social Work

If you choose to focus on social work, you will be prepared for employment in a beginning professional-level job such as social work assistant, case manager, counselor, or other position in a human service or social service agency.

You may also choose to transfer to a four-year college to obtain a bachelor's degree in social work, human services, psychology, sociology, vocational rehabilitation or similar program.

Specialization: Inclusive Special Education

Completing this specialization will prepare you for employment as a teaching assistant in private, parochial, or public schools, and to work with students with special needs in an inclusive or special education setting. Completing courses within this area meets the New York state requirement for teaching assistant certification.

You may also choose to transfer to a four-year teacher preparation program to pursue teacher certification in Special Education.

Specialization: Early Childhood Education

If you are interested in becoming an assistant or head teacher in a program working with children from birth to Grade 3, you will want to choose the Early Childhood Education specialization. You will be prepared to work as a teaching assistant in a public school, pre-kindergarten or Head Start program, or as a head teacher in an early childhood center, or as a family child care provider or nanny.

Completing 9-12 credits of courses within this area meets the qualifications for a head teacher required by the New York State Department of Social Services Day Care Licensing Regulations. Courses within this area also meet the formal training requirement for the Child Development Associate (C.D.A.) credential awarded by the Council for Early Childhood Professional Recognition in Washington, D. C.

You may also choose to transfer to a four-year teacher preparation program to pursue Early Childhood teacher certification, or a bachelor's degree program in Child Care and Development or Early Care and Education Leadership.

Onondaga also offers a certificate program in Early Child Care. All of the credits earned in the Early Child Care Certificate can be applied to the Human Services A.S. degree.

Essential Skills and Dispositions

The following skills and dispositions, with or without reasonable accommodations, are expected of all students enrolled in the Human Services A.S. program: Alcohol and Substance Abuse Counseling (HUM), Social Work (HUM), Inclusive Special Education (EDU), and Early Childhood Education (EDU) Specializations.

1. Emotional stability and psychological health to work with children, families, clients, colleagues and college personnel.
2. Interpersonal skills sufficient to establish a professional relationship with individuals, families, and clients from a variety of cultural, social, emotional, and intellectual backgrounds.
3. Effective written and oral communication skills.
4. Critical thinking for assessment and decision-making in field placements.
5. Ability to carry out duties and responsibilities in Human Services or Early Childhood fieldwork, including observation and assessment; monitoring safety needs; moving quickly to ensure children's safety; and lifting children, equipment and supplies up to 50 pounds.
6. Sufficient stamina to carry out the duties and responsibilities in Human Services or Early Childhood fieldwork placements.
7. Character dispositions such as honesty, integrity, caring and empathy.

Graduation Requirement: Students must earn a grade of C or better in each HUM or EDU course in order to graduate.

First Year	Credits
ENG 103-104 Freshman Composition and Literature I and II (ENG 099, a non-credit course, may be required.)	6
English, Reading or Communication elective	3
Social Science electives ¹	6
Mathematics elective	3-4
Physical Education Activity	1
Alcohol and Substance Abuse Counseling Specialization	
HUM 150 Human Services Theory, Skills and Resources	3
HUM 159 Chemical Dependencies	3
HUM 268 Social Work with Alcohol Substance Abuse	3
Human Services Alcohol Substance Abuse Counseling elective	3
<OR>	
Social Work Specialization	
HUM 150 Human Services Theory, Skills and Resources	3
Human Services Theory course	3
Human Services electives	6
<OR>	
Inclusive Special Education Specialization	
EDU 182 Child Growth and Development	3
EDU/HUM 230 Human Services with Diverse Populations	3
Education electives	6
<OR>	
Early Childhood Specialization	
EDU 180 Introduction to Early Childhood Education	3
EDU 182 Child Growth and Development	3
Education electives	6
Total Credits:	31-32

Second Year	Credits
General electives	6
Economics/History/Political Science electives ¹	6
Science elective ¹	3-4
Liberal Arts electives ¹	6
Health elective or HUM 270	1
Physical Education Activity	1
Alcohol and Substance Abuse Counseling Specialization	
HUM 164 Human Services Field Instruction and Seminar I	3
Human Services electives	6
<OR>	
Social Work Specialization	
HUM 164 Human Services Field Instruction and Seminar I	3
Human Services electives	6
<OR>	

Inclusive Special Education Specialization

EDU 174 Teaching Fieldwork Instruction and Seminar	3
EDU 272 Perspectives on Disabilities: Child, Family, School and Community	3
EDU 273 Principles of Inclusive Education <OR>	3

Early Childhood Specialization

EDU 183 Observation and Assessment of Young Children	3
EDU 184 Early Childhood Field Instruction and Seminar I	3
EDU 281 Curriculum Development	3

Total Credits:	32-33
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Total Program Credits:	63-65
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Notes:

1. Consult with a HUM/EDU advisor to plan your SUNY General Education courses if you plan to transfer to a SUNY four-year institution.

Interior Design (A.A.S.)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 352
PHONE: (315) 498-2687
EMAIL: ARCHTECH@SUNYOCC.EDU

The Interior Design program emphasizes the design of functional, aesthetic, and technically proficient environments that meet the needs of people in spaces that are both safe and universally accessible. Green/sustainable practices are infused throughout the curriculum. As an interior design professional, you will work collaboratively with architects and engineers in design teams lending your particular expertise to the design and construction process. Given these close professional ties, you should not be surprised to find yourself in studios and classes with architecture students.

As a prospective interior design student, you should not confuse this program with interior decoration, although elements of decoration are inherent in any interior design program. To ensure a more positive understanding of the program, please note that similar programs at other schools are identified as programs in interior architecture.

Onondaga's Interior Design faculty is composed of practicing Interior designers, architects and engineers with up-to-date design and construction experience in a variety of residential and commercial projects including historic preservation, additions and renovations, and contemporary new construction.

Admission requirements are flexible. Evidence of studio courses in art or three-dimensional design is desirable, but not mandatory. A personal interview is recommended. You may begin in either the fall or spring semester.

The work of the interior designer has taken on new significance as many states, including New York, have established interior design as a licensed profession. The Interior Design curriculum at Onondaga is one of the registered A.A.S. programs

recognized by the NYS Education Department as creditable towards the education/experience requirement necessary for certification to use the title "certified interior designer." The Interior Design Curriculum closely matches the NYS Ed. Dept. List of content areas required for associate degrees as follows:

- drafting and presentation techniques;
- fundamentals of space planning and design;
- materials and methods of construction;
- furniture, finishes, and equipment;
- history of architecture and the decorative arts;
- codes – construction, fire, safety and accessibility.

Students in the program will be required to create, transmit and present assignments using computers and other digital technology. After the completion of the first semester required classes (IND 101, 150, and 170), each student will be required to provide his or her own laptop computer and software for all classes in the program. The laptop computer must be capable of running the required software as designated for each course.

Courses in color theory, computer drafting, environmental controls, and professional practice are also available. Individual courses are available to practicing professionals who wish to update skills and to satisfy continuing education requirements.

Career Possibilities

Onondaga's Interior Design program is structured to prepare you for a responsible position in an interior design office involved with either residential or commercial projects. Typical employment situations include architect offices; engineering firms; contract furnishings suppliers; and facilities planning offices in the corporate, educational, or health service fields. Other employment opportunities exist in the wholesale/retail sales of finish materials and products, and in the design and sales of kitchen and bath cabinetry and fixtures.

Transfer Options

As an Onondaga Interior Design student, you will also be well-prepared for further professional study at upper-division schools. Although the number of transfer credits accepted are ultimately at the discretion of receiving institutions, experience has shown that qualified interior design graduates can expect to transfer most, if not all, of their Onondaga credits. A sample of receiving institutions include:

- Cazenovia (articulation agreement)
- Rochester Institute of Technology
- Syracuse University
- Boston Architectural Center

Graduation Requirement: Students must earn a grade of C or better in core IND courses in order to graduate.

First Semester	Credits
IND 101 Design and the Built Environment	2
IND 150 Graphic Communication Studio I	4
IND 170 Technology: Design and Production	3
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
Mathematics elective ¹	3-4
Health elective	1
Physical Education Activity	1
Total Credits:	17-18

Second Semester

IND 111 Design Studio 2	4
IND 120 Drafting Studio 1: Wood Frame	3
IND 140 Wood Frame Construction	3
IND 231 History of Architecture and Interiors ²	3
ENG 104 Freshman Composition and Literature II	3
Physical Education Activity	1
Total Credits:	17

Third Semester

IND 141 Interior Finish Systems and Furnishings	3
IND 215 Design Studio 3	4
IND 256 Graphic Communications III	3
Social Science elective	3
Professional electives	5
Total Credits:	18

Fourth Semester

IND 216 Design Studio 4	4
Liberal Arts elective	3
Mathematics I/Science elective	3-4
Professional electives	4
Social Science elective	3
Total Credits:	17-18
Total Program Credits:	69-71

Notes:

1. Minimum 3-4 credits of 100-level MAT. More advanced courses may be substituted with permission of the student's advisor.

Labor Studies (A.S.)

OFFICE: MAWHINNEY HALL, ROOM 349A
 PHONE: (315) 498-2588
 EMAIL: OCCINFO@SUNYOCC.EDU

The Labor Studies degree program parallels the first two years of a university-level industrial and labor relations curriculum and is designed to meet the needs of both adults working with labor organizations and undergraduates seeking a career in the field. The degree combines labor relations courses stressing the development of practical skills, such as collective bargaining, contract administration and arbitration, with studies in economics, history, psychology and sociology. It provides a sound academic background to prepare students to transfer to four-year programs in in-

dustrial relations at institutions such as LeMoyné College, Keuka College, the George Meany National Labor College and Cornell University.

The curriculum also provides the opportunity to combine academic and professional experience through a credit-bearing internship program. Students may have the opportunity to work with area professionals in labor relations fields to earn practical experience and course credit.

Labor Studies courses are taught by both Onondaga Community College staff and labor relations professionals from the Central New York area. All have had academic as well as practical experience in the field of labor relations. Faculty members have special expertise in such areas as labor history, labor and politics, labor economics, and organizational communication. Courses are offered in both a traditional face-to-face setting and online. A combination of both modes of delivery may be necessary to complete the degree in a two-year period.

Liberal Arts and Sciences Credits

ENG 103-104 Freshman Composition and Literature I and II (ENG 099, a non-credit course, may be required.)	6
History (American recommended)	6
Mathematics/Science electives	6-8
ECO 203 Macroeconomics	3
ECO 204 Microeconomics	3
Social Science electives (Sociology/ Psychology recommended)	6
Total Credits:	30-32

Specialized Core

LBR 210 Contract Bargaining	3
LBR 212 Union Administration	3
LBR 215 Contemporary Labor Problems	3
LBR 225 Contract Administration	3
LBR 230 Labor and the American Economy	3
LBR 241 Arbitration	3
LBR 254 Labor Law	3
LBR 255 Labor History	3
LBR 256 Dispute Resolution	3
LBR 259 Public Sector Collective Bargaining	3
LBR 280 Oral and Written Communications	3
LBR 287 Labor, Government and Politics	3

Note: Students must choose a total of 18 credit hours in the above Specialized Core courses.

General electives	12
Physical Education Activities	2
Health elective	1
Total Credits:	63-65

Law Enforcement Certificate

OFFICE: J. STANLEY COYNE HALL, ROOM 100
PHONE: (315) 498-6046
WWW.PSTC.SUNYOCC.EDU/

Do you enjoy a challenge? Do you want a career that places you on the front lines of protecting your community? Do you want to receive your training at a nationally recognized training facility? If so, the Public Safety Training Center at Onondaga Community College has the right program for you.

The Pre-Employment Basic Course for Police Officers will prepare you to succeed in a rewarding career as a police officer. Students will learn the tactics, theory and skills required of today's law enforcement professional. Examples of topics include basic law, arrest techniques, public safety procedures, investigation techniques, community relations, etc.

Successful completion of the Phase I Basic Course for Police Officers fulfills the requirement of the New York State Division of Criminal Justice Services that all police officers complete the Basic Course for Police Officers within one year of their employment. Once employed by a police agency, you will receive the remaining training to fully qualify you for this career.

All instructors in the program are certified by New York state as police instructors. Graduates of the program will receive a Law Enforcement certificate. In addition, successful candidates will be certified by the New York State Division of Criminal Justice Services for a period of two years as having satisfied the requirements for Phase 1 training.

The Public Safety Training Center at Onondaga Community College is a nationally recognized leader among educational providers in first responder education and training.

First Semester	Credits
LEC 103 Principles of Law for Law Enforcement Officers	7
LEC 105 Law Enforcement Procedures	8
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
Total Credits:	18
Second Semester	
LEC 105L Law Enforcement Procedures - Proficiency	5
LEC 109 Law Enforcement Investigation Techniques	4
LEC 111 Community Relations for Law Enforcement Officers	2
LEC 120 EMS Certified First Responder	3
Total Credits:	14
Total Program Credits	32

Liberal Arts & Sciences: Adolescence Education—Grade 7-12 (A.A.) (Teacher Education Transfer)

OFFICE: MAWHINNEY HALL, ROOM 280
PHONE: (315) 498-2341
EMAIL: OCCINFO@SUNYOCC.EDU

If your goal is to become a certified teacher in Grades 7-12, you will be interested in the Liberal Arts and Sciences: Adolescence Education (Teacher Education Transfer) Associate of Arts degree program. This program prepares students for transfer to a SUNY four-year institution to pursue initial NYS certification in Adolescence Education (Grades 7-12). Students complete the ten SUNY General Education requirements and select a sequence of courses in a specialization. Specializations include: English, Mathematics, History/Social Studies, Physics, Biology, Chemistry, and Earth Science. Students should consult a Teacher Education advisor to select a specializations that will transfer to the four-year institution of the student's choice.

This program also provides thirty clock hours of guided field observation and six credit hours of Professional Preparation courses. A one-credit course focusing on school violence prevention and safety issues facing professionals working with children is also required. Students who successfully complete this one credit course earn NYS certificates of completion in Identification and Reporting of Child Abuse and Neglect and in School Violence Prevention and Intervention.

Admission Requirements

In addition to Onondaga Community College's general admission requirements, enrollment in this program requires:

1. A high school diploma or equivalent
2. College-level placement in English and Reading (Note: Students who need to complete developmental coursework prior to required courses will need additional time to complete the A.A. degree)
3. A high school average of 85% or a cumulative G.P.A. of 2.5 after completing 15 credit hours of college level work.

Retention in this program requires:

Maintenance of a G.P.A. of 2.5 to remain in good standing in the program. (Student will be placed on probation if the G.P.A. drops below 2.5 in a given semester; the student is expected to raise the G.P.A. to 2.5 the following semester.)

Please Note: Since admission requirements vary among four-year teacher preparation programs, students are urged to consult an Onondaga Teacher Education advisor in the Human Services and Teacher Education department or the Counseling department for transfer information for specific colleges.

Essential Skills and Dispositions

The following skills and standards, with or without reasonable accommodations, are expected of students enrolled in the Liberal Arts and Sciences A.A.: Adolescence Education program (EDA).

1. Emotional stability and psychological health to work with adolescents, families, colleagues and college personnel.
2. Interpersonal skills sufficient to establish a professional relationship with individuals, adolescents and families from a variety of cultural, social, emotional, and intellectual backgrounds.
3. Effective written and oral communication skills.
4. Critical thinking for assessment and decision making in the classroom.
5. Character dispositions such as honesty, integrity, caring and empathy.

First Year	Credits
ENG 103-104 Freshman Composition and Literature I and II (ENG 099, a non-credit course, may be required.)	6
MAT 118 or higher ¹	3
PSY 103 General Psychology ¹	3
PSY 207 Adolescent Psychology	3
Foreign Language I and II ¹	6
Science elective ¹	4
HIS 105 or 106 or 107 ¹	3
Specialization	3
Total Credits:	31

Second Year	Credits
The Arts ¹	3
HIS 103 or 104 ¹	3
EDU 275 Cultural Foundations of Education	3
Other World Culture ¹	3
Health 212 Health and Safety Awareness for Teachers	1
Physical Education Activities	2
Specialization	9-15
Total Credits:	24-30
Total Program Credits:	55-61

Notes:

1. See advisor for selection of appropriate SUNY General Education courses.

Liberal Arts & Sciences: Childhood Education- Grade 1-6 (A.A.) (Teacher Education Transfer)

OFFICE: MAWHINNEY HALL, ROOM 280
 PHONE: (315) 498-2341
 EMAIL: OCCINFO@SUNYOCC.EDU

If your goal is to become a certified teacher in Grades 1-6, you will be interested in the Liberal Arts and Sciences: Childhood Education (Teacher Education Transfer) Associate of Arts degree program. This program prepares students for transfer to a four-year SUNY institution to pursue initial NYS certification in Childhood Education (Grades 1- 6). Students complete the ten SUNY General Education requirements and 12 to 18 credits of a specialization required by four-year teaching de-

gree institutions. specializations include: English, Mathematics, History, Physics, Biology, Chemistry, Earth Science and General Science. Students should consult a Teacher Education advisor to select a specialization that will transfer to the four-year institution of the student's choice.

This program also provides thirty clock hours of guided field observation, and six credit hours of Professional Preparation courses. A one-credit course focusing on school violence prevention and safety issues facing professionals working with children is also required. Students who successfully complete this one credit course earn NYS certificates of completion in Identification and Reporting of Child Abuse and Neglect and in School Violence Prevention and Intervention.

If your goal is to become a certified teacher in Early Childhood (Birth-Grade 2), please consult a Teacher Education advisor in the Human Services and Teacher Education department.

Admission Requirements

In addition to Onondaga Community College's general admission requirements, enrollment in this program requires:

1. A high school diploma or equivalent.
2. College-level placement in English and Reading (Note: Students who need to complete developmental coursework prior to required courses will need additional time to complete the A.A. degree).
3. A high school average of 85% or a cumulative G.P.A. of 2.5 after completing 15 credit hours of college level work.

Retention in the program requires:

Maintenance of a G.P.A. of 2.5 to remain in good standing in the program. (Student will be placed on probation if the G.P.A. drops below 2.5 in a given semester; the student is expected to raise the G.P.A. to 2.5 the following semester.)

Please Note: Since admission requirements vary among 4-year teacher preparation programs, students are urged to consult an Onondaga Teacher Education advisor in the Human Services and Teacher Education department or Counseling department for transfer information for specific colleges.

Essential Skills and Dispositions

The following skills and dispositions, with or without reasonable accommodations, are expected of students enrolled in the Liberal Arts and Sciences A.A.: Childhood Education program (EDC).

1. Emotional stability and psychological health to work with children, families, colleagues and college personnel.
2. Interpersonal skills sufficient to establish a professional relationship with individuals, children and families from a variety of cultural, social, emotional, and intellectual backgrounds.
3. Effective written and oral communication skills.
4. Critical thinking for assessment and decision making in classrooms.

5. Character dispositions such as honesty, integrity, caring and empathy.

First Year	Credits
ENG 103-104 Freshman Composition and Literature I and II (ENG 099, a non-credit course, may be required.)	6
MAT 121 Math for Elementary Teachers I ¹	4
MAT 122 Math for Elementary Teachers II (or higher per major/specialization)	4
PSY 103 General Psychology ¹	3
PSY 204 Child Psychology or EDU 182 Child Development: Observation/Assessment	3
Foreign Language I and II ¹	6
Science elective ¹	4
Major/Specialization Credits:	6-8
Total Credits:	36-38

Second Year	Credits
The Arts ¹	3
HIS 103 or 104 ¹	3
EDU 180 Intro to Early Childhood Education or EDU 275 Cultural Foundations of Education	3
Other World Culture ¹	3
HIS 105 or 106 or 107 ¹	3
HEA 212 Health and Safety Awareness for Teachers	1
Physical Education Activities	2
Specialization Credits:	12-18
Total Credits:	30-36
Total Program Credits:	66-74

Notes:

1. See advisor for selection of appropriate SUNY General Education courses.

**Liberal Arts & Sciences:
General Studies (A.A.)**

OFFICE: MAWHINNEY HALL, ROOM 280
PHONE: (315) 498-2332
EMAIL: OCCINFO@SUNYOCC.EDU

If you would like the opportunity to better understand your career options, you may be interested in earning a transfer-oriented associate of arts (A.A.) degree in liberal arts through Onondaga's General Studies program. This program also provides you the opportunity to improve your academic skills.

Although some General Studies students prepare for a specific occupation, others select this program in order to meet the Liberal Arts/General Education requirements for a variety of programs at many four-year colleges and universities. You can choose elective courses along with your required courses in order to structure an individualized specialization.

By choosing from a list of courses each semester, you can individualize your education in order to achieve a balance between developing known interests and exploring new subject areas. At the same time, you will study liberal arts courses such as English composition

and literature, history, social sciences, humanities, communication and science. You will be encouraged to investigate a diversity of vocational options to provide yourself with a knowledgeable basis for future commitments. The key objectives of the program are to provide you with an introduction to career education through a sequence of interrelated courses during the freshman year, to help you improve your academic abilities, and to advise and assist you in accomplishing these goals through supportive seminar classes with General Studies faculty.

Through the completion of degree requirements and with careful advisement in selecting electives, you may be able to complete a minor in a specific area of study. (Please see the section on Minors beginning on page 105 of this Catalog.)

After completing your associate of arts degree requirements at Onondaga Community College, you may choose to transfer to a four-year upper-division college or university to earn a baccalaureate degree, or you may choose to secure employment directly upon graduating. Our graduates may secure placement in private industries and businesses, public service, or government agencies at federal, state and local levels. Regardless of the goals you decide to pursue, the broad background provided through General Studies offers the rewards and opportunities of a diversified education.

First Year	Credits
ENG 103-104 Freshman Composition and Literature I and II (ENG 099, a non-credit course, may be required.)	6
GEN 152 Human Adjustment	3
GEN 154 Comparative Vocational Planning	3
COM 101 Interpersonal Communication OR COM 102 Public Speaking	3
General or Reading elective ¹	3
Humanities elective ²	3
Mathematics/Science electives ³	6-8
Social Science elective	3
Total Credits:	30-32

Second Year	Credits
English electives ⁴	6
Health elective	1
Humanities elective ²	3
Mathematics/Science elective ³	3-4
Social Science electives (Including 6 credits of History)	9
General electives ⁵	5-8
Physical Education Activities	2
Total Credits:	30-32
Total Program Credits:	62

Notes:

1. The three-credit Reading requirement will be waived for students who score 95 or above on the Reading Placement Test.
2. May be chosen from Art; Cinema; Communication; History; Language; Literature; Literatures, Cultures and Civilizations; Music; Philosophy; or Photography.

3. Three courses of Science, or two courses of Science and one course of Mathematics. At least one Science course must be a laboratory science.
4. English electives are to be chosen from 200-level literature courses (ENG 203, 204, 209, 210, 213, 221, 222, 223, 224, 225, 226, 230, 241, and 245).
5. The exact number of general elective credits will vary according to course choices, requiring no more than 8, but enough to bring the Total Program Credits to 62.

Liberal Arts & Sciences: Humanities and Social Sciences (A.A.)

OFFICE: MAWHINNEY HALL, ROOM 294
 PHONE: (315) 498-2551
 EMAIL: OCCINFO@SUNYOCC.EDU

If you're looking for a traditional course of study that exposes you to a broad spectrum of subjects - and also teaches you to reason, question, and communicate - Onondaga's associate of arts (A.A.) degree in Humanities and Social Sciences provides this experience.

In addition, this program satisfies the General Education Liberal Arts requirements at many four-year colleges and universities, enabling you to move seamlessly into any major course of study once you transfer.

Graduates of this program have earned four-year degrees in liberal arts in pre-professional areas such as journalism, history, English literature, political science, modern languages, psychology, philosophy, economics, sociology, anthropology and more.

You will study the same liberal arts courses that freshmen and sophomore students typically study at colleges across the country: English composition and literature, history, mathematics, science, philosophy, fine arts, global awareness and languages, plus social sciences such as political science, psychology, anthropology, geography, sociology, and economics. This diverse exposure broadens your perspective on life and helps you make informed decisions about your career direction and future course study.

This program also includes a generous choice of electives, enabling you to explore new ideas and then focus on the area that most appeals to you: music, art, business, journalism, communication, computer science and more.

Through the completion of degree requirements and with careful advisement in selecting electives, you may be able to complete a minor in a specific area of study. (Please see the section on Minors beginning on page 105 of this Catalog.)

If you wish to enter the workforce after graduation from Onondaga, this degree tells employers that you have a broad-based education - and that you have learned how to learn. Many employers prefer to hire generalists who have solid reasoning and communication skills and therefore usually make good candidates for specialized, on-the-job training.

Humanities curriculum outline sheets specify the requirements in detail and are available from the Counseling department as well as from the English, Social Science and Modern Languages offices located in Mawhinney Hall.

The department of English, Reading and Communication offers courses in writing, literature, reading, communication, journalism and cinema studies. Students must complete English 103 and English 104 before taking upper-level English electives. A wide range of upper-division (200-level) writing and literature courses are available, including creative writing, report and technical writing, surveys of British and American Literature, literature by women, folklore, and science fiction.

The **Reading** discipline offers a variety of non-credit and credit courses. Non-credit courses are designed to help students develop their reading skills to meet the demands of college-level classes. Credit courses are available for students who would like to enhance their academic performance in college. Students may choose to focus on developing their vocabulary or improving their critical reading and study skills.

The **Communication** discipline offers courses in basic communication skills, public speaking, argumentation, interpersonal communication, gender communication, and small groups. Communication courses which respond specifically to the needs of international students are also available.

The Social Sciences department houses history and philosophy as well as the social sciences. The social sciences involve the study of human behavior and interactions. These sciences are anthropology, economics, geography, psychology, political science and sociology.

- **Anthropology** is the scientific study of humans across cultures and through time.
- **Economics** is the study of how society chooses to use limited resources in attempting to satisfy unlimited wants.
- **Geography** examines through spatial analysis the world's social, political, cultural, economic and environmental processes, with a particular focus on space and place.
- **History** studies significant past events, explains their causes and effects, and their impact on the present.
- **Philosophy** involves the critical examination of our fundamental views concerning reality, knowledge and values.
- **Political Science** is concerned with the analysis of political and governmental institutions, public affairs and their interrelationships.
- **Psychology** seeks to discover the environmental and genetic factors that influence an individual's thoughts and behaviors.
- **Sociology** focuses on the study of society and its institutions, and social relationships among groups of humans.

The **Modern Languages department** provides the opportunity to study languages other than English. Professors as well as students use the target language as much as the level of the course permits. Language study is complemented by learning about the cultures in which the language is spoken. In addition, courses on literature and civilization are offered. Knowledge of other languages and cultures is increasingly important for economic and social reasons.

The language courses required at Onondaga vary according to the high school background of individual students.

	Credits
ENG 103-104 Freshman Composition and Literature I and II (ENG 099, a non-credit course, may be required.)	6
English elective ¹	3
Social Science electives (must include 6 credits of History)	12
Laboratory Science electives	7-8
Mathematics elective	3
Philosophy elective	3
Fine Arts elective	3
Humanities electives ²	6
Global Awareness: Multicultural/ International Perspective elective ³	3
Language electives	6
General electives	9
Physical Education Activities	2
Health elective	1
Total Program Credits:	64

Notes:

1. English electives are to be chosen from 200 level literature courses (ENG 203, 204, 209, 210, 213, 221, 222, 223, 224, 225, 226, 230, 241, 245)
2. Approved Humanities electives include: Art history (non-studio), CIN, COM, ENG, 3-credit MUS (non-studio) and PHI.
3. See Global Awareness courses list on page 42.

Liberal Arts & Sciences: Mathematics and Science (A.A. or A.S.)

OFFICE: MAWHINNEY HALL, ROOM 210
PHONE: (315) 498-2328
EMAIL: OCCINFO@SUNYOCC.EDU

There are two degree programs under the Mathematics and Science curriculum, the A.A. and the A.S. Both are university parallel programs. Depending on the electives you select, you will be prepared to transfer to a senior college to pursue a career in biological science, physical science, biotechnology, mathematics, medicine, dentistry, pharmacy, forestry, computer science, psychology or other related disciplines.

The A.A. program is the traditional liberal arts basis for a four-year degree with a major in Mathematics or one of the Sciences (or even one of the more mathematically oriented social sciences).

You will sample many areas of study while laying the mathematical and scientific foundation for the higher level courses you will take after transfer. You are strongly encouraged to have completed three or four years of high school mathematics and as much science as possible, including chemistry and physics if available. You may be accepted with less preparation, but extra time may be needed to complete all the requirements.

The A.S. program is highly concentrated in mathematics and science. Choose this program if your transfer plans require such a concentration. Several of the curricula at the SUNY College of Environmental Science and Forestry, for example, have such requirements.

It is recommended that students in the A.S. program be ready to start calculus (have four years of high school mathematics), and have a minimum of three years of science, including two of the following: biology, chemistry, or physics (all are recommended).

Specialization: Pre-Biotechnology

The first successful genetic-engineering experiments and the subsequent refinements in this technology have revolutionized biology and created new career opportunities in biotechnology. According to a recent report from the Center for Occupational Research, U.S. companies will require more than 1,000 new biotechnicians annually.

The pre-biotechnology specialization within the Mathematics and Science program is designed for you if your ultimate goal is a B.S. degree in the field of biotechnology. Onondaga Community College has articulation (transfer) agreements with the following senior colleges offering programs in biotechnology: Rochester Institute of Technology, The College at Brockport, and State University of New York College at Fredonia. Additional articulation agreements are developed each year.

These agreements allow you to take the first two years of a four-year degree at Onondaga, and then complete your studies for the B.S. degree at one of the participating senior colleges, usually in two additional years. If you plan to transfer as a junior, you should follow the Mathematics and Science A.S. program requirements in consultation with Onondaga's Pre-Biotechnology campus advisor since the selection of required courses and electives will vary among the participating senior colleges.

As an applicant to Pre-Biotechnology, you must have four years of high school mathematics along with a minimum of three years of high school science, including two of biology, chemistry or physics (all are recommended).

Upon successful completion of the Pre-Biotechnology specialization, you will be prepared to transfer to the above named senior institutions, as well as to other schools offering comparable programs in biotechnology.

Specialization: Pre-Environmental Science and Forestry

If you ultimately desire a B.S. degree from the SUNY College of Environmental Science and Forestry (ESF), you are invited to study at Onondaga first by completing this specialization.

The requirements for transfer to ESF vary according to your eventual intended major. Your curriculum will similarly vary at Onondaga. You are urged to matriculate in either the Mathematics and Science program at Onondaga or the Architectural Technology program, the latter particularly if the ultimate goal is a bachelor of landscape architecture degree or a construction management degree.

Depending upon your intended major after transfer, the Onondaga Pre-ESF curricula will include varied specialization in the liberal arts and sciences. All students in the program must take courses in biology, chemistry, physics, and mathematics. Other liberal arts and sciences requirements or electives for the transfer degree can include economics, social science, computer science, engineering graphics, political science, language, literature, or communications.

The College of Environmental Science and Forestry also offers a "one-plus-one" program leading to an A.A.S. degree in forest technology. Thirty credit hours of course work must be completed before transfer to the Ranger School at Wanakena. The required courses include biology, algebra, trigonometry, English and economics.

If you plan to transfer to ESF, you should follow the program requirements in consultation with our Pre-Environmental Science and Forestry campus advisors* for selection of electives which vary according to the curriculum at ESF. Full and complete guidelines of curriculum content are available in the Admissions office or from the Mathematics and Science and Architectural Technology advisors.

To apply to the Pre-ESF specialization, you are strongly encouraged to have three to four years of high school mathematics and as much science as possible, including chemistry and physics.

Upon successful completion of this course of study, you will be prepared to transfer to ESF to a variety of programs which include the biological sciences (botany and forest pathology, entomology, zoology, wildlife biology, silvics, pest management); chemistry (natural and synthetic polymers, biochemistry and natural products, environment); forest engineering; paper science and engineering; wood products engineering; forestry (resource management, forest resource science, management science, environmental education and communications, urban forestry, world forestry, applied resource management); and environmental studies. The program in landscape architecture leads to a B.L.A. degree (Bachelor of Landscape Architecture) after three years of study at ESF.

* Names and locations of the pre-ESF advisors may be obtained from the Mathematics/Science proctor.

Mathematics and Science Program A.A.

First Year	Credits
ENG 103-104 Freshman Composition and Literature I and II (ENG 099, a non-credit course, may be required.)	6
History electives	6
MAT 143 Precalculus Algebra ¹	4
MAT 161 Calculus I ¹	4
Sequential Laboratory Science ²	8
Physical Education Activities	2
Health elective	1
Total Credits:	31

Second Year

Language and/or Philosophy and/or English ³	6
Social Sciences electives	6
MAT 162 Calculus II or MAT 151 Statistics I	3-4
Mathematics/Science electives ⁴	6-8
General electives ⁵	8-11
Total Credits:	29-35
Total Program Credits:	60-66

Notes:

1. Students who complete MAT 143, precalculus algebra, may use these 4 credits in the general elective category. The mathematics requirement is fulfilled by completion of either MAT 161 and MAT 162, or MAT 151 and MAT 161.
2. The laboratory science sequence must be chosen from one of the disciplines listed below. Choose only one sequence from any particular discipline. The courses which constitute acceptable sequences within each discipline are indicated.
 - a) Biological Sciences: BIO 151-152
 - b) Geological Sciences: GEO 103-104
 - c) Physical Sciences: PHY 103-104, PHY 105-205, PHY 105-206 or PHY 205-206
 - d) Chemistry: CHE 103-104, CHE 203-204, CHE 205-206
3. Applicable English courses are ENG 121 and all ENG courses numbered 200 or above. Modern language can be used to fulfill this requirement. Modern language literature in translation or civilization courses are not applicable.
4. Mathematics electives must be chosen from MAT 112, 113, 121, 122 and any MAT course numbered 140 and higher. Science courses used for this requirement must be chosen from outside the discipline selected for the laboratory science sequence. BIO 105, 106, 121, and CHE 151, 153, and SCI 111, 112 are not applicable.
5. See your advisor for appropriate electives.

Mathematics and Science Program A.S.

First Semester	Credits
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
Social Sciences or Humanities elective	3
MAT 161 Calculus I ¹	4
First Sequential Laboratory Science I ²	4
Physical Education Activity	1
Total Credits:	15

Second Semester

ENG 104 Freshman Composition and Literature II	3
MAT 162 Calculus II	4
First Sequential Laboratory Science II	4
Second Sequential Laboratory Science I ²	4
Health elective	1
Total Credits:	16

Third Semester

Social Sciences or Humanities electives	6
Mathematics/Science/Computer elective ³	4
Second Sequential Laboratory Science II	4
General elective ⁴	3
Total Credits:	17

Fourth Semester

Social Sciences or Humanities elective	3
Mathematics/Science/Computer electives ³	8
General elective ⁴	3
Physical Education Activity	1
Total Credits:	15
Total Program Credits:	63

Notes:

- Students who are required to complete MAT 143, precalculus algebra, may use these 4 credits in the general elective category.
- Laboratory science sequences must be completed in two of the disciplines listed below. Choose only one sequence from any particular discipline.
 - BIO 151-152
 - CHE 103-104
 - GEO 103-104
 - PHY 103-104, PHY 105-205, PHY 105-206, PHY 205-206
- Mathematics/Science/Computer elective must be selected from the following:
 - MAT: Courses numbered 151 or higher
 - BIO: Courses numbered 101 or higher. BIO 105, 106, and 121 are not applicable.
 - CHE: 103, 104, 153, 203, 204, 205, 206
 - GEO: 103, 104, 105, 105L, 106, 106L and courses numbered 200 or higher
 - PHY: 103, 104, 105 and courses numbered 200 or higher. (Degree credit cannot be awarded for both PHY 103 and PHY 105.)
 - SCI: 100, 100L, 103, 103L
 - CSC: 106, 111, 112
- Mathematics electives must be chosen from MAT 112, 113, 121, 122 and any MAT course numbered 140 and higher. Science courses must be listed in Note 3 above. Any CSC course must be numbered 106 or higher.

Mechanical Technology (A.A.S.)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 142
 PHONE: (315) 498-2442
 EMAIL: OCCINFO@SUNYOCC.EDU

The Mechanical Technology program is a two-year Associate in Applied Science degree oriented to prepare students for employment in industry as engineering technicians.

Course work in the Mechanical Technology program includes: engineering documentation, manufacturing processes, machining and inspection techniques, material science, and computer-aided-design. Intrinsic to the educational development of the students, a mathematics sequence, physics, and relevant liberal arts courses are also included.

First Semester

ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit English course, may be required.)	3
MET 151 Machine Tools I	3
MET 171 Manufacturing Processes	3
MET 161 Engineering Drawing	3
MAT 114 Intermediate Algebra (A non-credit Mathematics course may be required.)	4
Total Credits:	16

Second Semester

ENG 104 Freshman Composition II	3
MET 152 Machine Tools II	3
MAT 143 Pre-Calculus With Trigonometry	4
MET 261 Intro to Computer Aided Design	3
Liberal Arts elective	3
Total Credits:	16

Third Semester

MET 251 Statistics and Strength of Materials	4
PHY 103 General Physics I	4
MET 270 Solid Modeling	4
Liberal Arts elective	3
Health elective	1
Physical Education Activity	1
Total Credits:	17

Fourth Semester

General elective	3
MET 153 Introduction to Modern Manufacturing	3
ELT 141 Circuits I	4
MET 252 Metallurgy	3
Mechanical elective ¹	3
Physical Education Activity	1
Total Credits:	17
Total Program Credits:	66

Notes:

- Any MET course with advisor approval.

Microcomputer Troubleshooting and Maintenance (Certificate)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 131
 PHONE: (315) 498-2451
 EMAIL: OCCINFO@SUNYOCC.EDU

Dealing with the desktop PC is one of the fastest growing careers today. The Microcomputer Troubleshooting and Maintenance certificate is designed to prepare you to work as a technical repair and maintenance expert

in the area of micro-computer technology and local area networking or to pursue an associate's degree (A.A.S.) in Computer Engineering Technology.

Microcomputers (desktop PCs) and networks have become an integral part of the office environment. As a result, the demand for technicians with microcomputer repair and maintenance background is growing at an accelerated pace. Employment possibilities exist in home PC repair and maintenance, business office installation, repair and support and a variety of industries concerned with using microcomputers as "tools of the trade."

If you wish to continue your studies for an A.A.S. degree in engineering technology, you may be accepted as a second-year student after consulting with an advisor about the applicability of credits to the Computer Engineering Technology program at Onondaga.

The field demands conceptual skills from three areas: digital electronics, computer information systems and computer science. This curriculum draws upon hardware concepts from electronics, software concepts from computer science and system concepts from computer information systems. These concepts are integrated into the various course offerings.

If you wish to enroll in this program, you should have one year of high school mathematics. If you lack the recommended mathematics background, you may develop your mathematical skills by taking specially designed non-credit course work in the area needed.

First Semester	Credits
CMT 101 Intro to Computers and Applications	4
CMT 171 Digital Electronics	4
ELT 100 Foundation of Electronics	4
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course may be required.)	3
MAT 113 Contemporary Math < OR > MAT 115 Modeling for Decision Making	3
Total Credits:	18

Second Semester	Credits
CMT 102 PC Hardware, Operating Systems, and Support	4
ELT 141 Circuits I	4
Technical elective ¹	4
Career elective ²	3-4
Total Credits:	15-16
Total Program Credits:	33-34

Notes:

1. Suggested Technical electives: CMT 190, 231, 272, 278, 291, 292; MET 151 or permission of advisor
2. Suggested Career electives: Business, Mechanical Technology, Mathematics or Science Courses with permission of advisor

Music (A.A.S.)

OFFICE: GORDON STUDENT CENTER, ROOM 202G
PHONE: (315) 498-2256
EMAIL: OCCINFO@SUNYOCC.EDU

The Onondaga Music degree program offers a two-year sequence designed to parallel the first two years of a typical four-year music degree program in music education, music business or music therapy. Completion of the two-year music curriculum will provide you with an A.A.S. degree, which includes a well-rounded liberal arts education. It also provides the options of transfer to a four-year degree program or direct entry into work as a private studio music teacher, professional musician, or any of a variety of positions in music merchandising.

Admission into the music major program requires adequate pre-college training and preparation, which is tested through audition prior to entry. If your audition suggests insufficient training in music theory, ear-training and/or your major instrument (or voice) and you nevertheless wish to enter the music degree program as a music major, a one- or two-semester sequence of proficiency courses is available. These courses generally cannot be applied to the degree requirements for the MUS.AAS degree; therefore, students in this situation may require an additional semester or two to complete the program. Those students whose audition results suggest a more serious level of under-preparation will be referred back to the Office of Recruitment and Admission for possible admission to an alternate academic program.

A curriculum specialization in Music Merchandising is available if your career plans include the fields of music and business. The format of this specialization would follow the same requirements as the MUS A.A.S. with the addition of courses in Economics (ECO 203), Business (two of BUS 105, 121 or 243) and Music as a Business (MUS 182).

Elective courses in Ethnic Music, Music Composition, MIDI, Music Business, improvisation, and applied music as well as performing ensembles.

The Music department has developed a basic electronic music laboratory located in the Music Resource Center. The use of the Electronic Music Lab is incorporated into a number of the Music department's course offerings. The lab features MIDI (Musical Instrument Digital Interface) equipped state-of-the-art pianos. In addition, a complete computer-controlled MIDI studio has been established featuring Kawai, Roland, and Yamaha synthesizers. This comprehensive digital synthesis studio is supported by an extensive library of the best music software programs.

The Music department presents many public concerts during each semester, including regular performances by student ensembles that are featured on the Arts Across Campus calendar along with many featured artists from outside the campus. Such student ensembles normally include the Onondaga Singers, Concert Choir, Wind Ensemble, Brass Quintet, Flute Choir, Clarinet Choir, Saxophone Ensemble, Guitar

Ensemble, Percussion Ensemble, String Ensemble, Latin Band, and Jazz Ensembles. Membership in Music department ensembles is decided by audition and is open to all Onondaga students.

A convocation for music students is scheduled every Friday during College Hour and features concerts by students, student ensembles, faculty members, and/or visiting musicians featured in Arts Across Campus.

Specialization: Music Merchandising

The Merchandising specialization will prepare you for music business careers including music publishing; the manufacture and sales of instruments; music reproduction, promotion or management; music retailing and wholesaling. This will also provide the option of transferring into a four-year music merchandising program. The course content in the specialization includes those music and liberal arts courses required for the degree, with the addition of MUS 182, Music as a Business, and selected business and economics courses. This specialization is open to music majors only. Specific requirement: audition.

Proficiency Courses for Non-Music Majors

Course	Credits
MUS 066 Beginning Music Reading I	0/1eq
MUS 067 Beginning Music reading II	0/1eq
MUS 103 Music Appreciation	3
MUS 104 Music Appreciation	3
MUS 107-110 Applied Music (lessons)	2
MUS 113A Piano Minor	1
MUS 160 Introduction to Music Theory I	3
MUS 161 Introduction to Music Theory II	3
MUS 166 Intro to Ethnic Music	3
MUS 182 Music as a Business	3

The above courses do not fulfill non-elective music degree requirements for matriculated A.A.S. students. They are assigned through individual testing and advisement to fit the individual's needs in cases where the student has insufficient background or training to enter the degree program. They are often scheduled in conjunction with liberal arts/humanities courses and/or other music courses which may fulfill A.A.S. degree requirements. Placement is determined at the time of audition and testing.

Music A.A.S.

First Year ¹	Credits
MUS 101T-102T Theory	3, 3
MUS 101R-102R Music Reading (Solfeggio)	1, 1
MUS 101K-102K Keyboard Harmony	1, 1
MUS 105-106 Music History	3, 3
MUS 111-112 Applied Music Major (Lessons)	2, 2
MUS 113-114 Piano Minor ²	1, 1
MUS 121-122 Applied Major Repertory	1, 1
ENG 103-104 Freshman Composition and Literature I and II (ENG 099, a non-credit course, may be required.)	3, 3
Social Sciences electives ³	3, 3
Total Credits:	18, 18

Second Year⁴

MUS 201T-202T Theory	3, 3
MUS 201R-202R Music Reading (Solfeggio)	1, 1
MUS 201K-202K Keyboard Harmony	1, 1
MUS 211-212 Applied Music Major (Lessons)	2, 2
MUS 115-116 Piano Minor ²	1, 1
MUS 221-222 Applied Major Repertory	1, 1
Humanities elective ⁵	3
Mathematics/Science elective	3-4
General elective ⁶	3-4
Liberal Arts elective ⁷	3
Physical Education Activities	2
Health elective	1
Total Credits:	17-18, 16-17
Total Program Credits:	69-71

Notes:

- MUS 151-152 Performing Organizations strongly recommended. MUS101D Diction for Singers required of all voice majors. Take during freshman year.
- Piano majors must take the MUS 185, MUS 186, MUS 187, MUS 188 sequence.
- American History, World History, Psychology, or Sociology recommended for transfer.
- MUS 251-252 Performing Organizations strongly recommended. MUS 100 Convocation is an optional course gaining you one credit-hour per semester.
- MUS101D Diction for Singers partly fulfills Humanities requirement for voice majors only. Otherwise, Music courses do not fulfill Humanities requirements.
- General elective must be approved by the student's advisor. This requirement cannot be fulfilled by adding one-half-, one-, and two-credit courses together. The only three-credit Music courses acceptable are MUS 166, 170, 182, 190, 203, and/or any MUS "selected topics" course.
- Music courses do not fulfill Liberal Arts requirements.

Nursing (A.A.S.)

OFFICE: FERRANTE HALL, ROOM 104
PHONE: (315) 498-2360
EMAIL: OCCINFO@SUNYOCC.EDU

The Nursing department offers an associate in applied science degree and is accredited by the National League for Nursing Accrediting Commission¹. Upon graduation, you will be eligible to apply for the National Licensing Examination for Registered Professional Nursing (NCLEX). Graduates of the Onondaga Nursing program find employment in hospitals, nursing homes, home care agencies, and community and industrial clinics.

National League for Nursing
Accrediting Commission
61 Broadway 33rd floor
New York, N.Y. 10006

Phone: (212) 363-5555, ext. 153

Fax: (212) 812-0390

<http://www.nlnac.org/>

The program welcomes students of all ages with or without a health care background. Full-time or part-time study is available.

Admission Requirements

In addition to Onondaga Community College's general admission requirements, the cumulative average on your most recent high school or college transcript must be 2.6, 77, or C+ or higher. (N.B. Grades will not be rounded and better than a C is required.)

Before your application to the program can be considered, you must have the following prerequisites:

1. High school diploma or its equivalent.
2. Designated level on standardized nursing preadmission test.
3. Two mathematics requirements:
 - a. Demonstrated eligibility for enrollment in MAT 114 at Onondaga within two years prior to matriculation in Nursing as determined by the Onondaga mathematics placement test or equivalent coursework
AND
 - b. After demonstration of eligibility to enroll in MAT 114, achievement of at least 80% in all sections of a Nursing Math Entrance Exam taken within two years prior to matriculation in Nursing.
4. Completion of one year of high school biology, or BIO 121, 151, 152 or equivalent, within 7 years prior to matriculation in Nursing. A hands-on laboratory is a required component of these courses.
5. Completion of one year of high school chemistry or CHE 151, general chemistry or equivalent within seven years prior to matriculation in Nursing. A laboratory is not required for these courses.
6. Placement into college-level English and reading.

NOTE: Prerequisite courses in biology and chemistry must be completed with a C+ (college), 77 (high school) or higher.

A competitive process is used for admission to Nursing with points assigned to specific criteria. Admission will be offered to qualified students in ranked order from highest to lowest, beginning at the review deadlines until all spaces are full.

Ranking points will be awarded for:

1. Most recent cumulative G.P.A.
2. Courses taken within the last three years of education that meet the grade requirement (science, mathematics, English)
3. Number of attempts on Nursing Math Entrance Examination
4. Previous certification as a health care provider (EMT, CNA, LPN, etc.) with documentation
5. New review if student met prerequisites at previous admission cycle but the program was full

Application deadlines for prerequisites complete with supporting documentation:

1. Summer and fall admission
 - a. February 20: first review
 - b. April 2: second review; deadline for readmits to Nursing
 - c. June 2: Final review
2. Spring admission
 - a. September 20: first review
 - b. November 2: second review; deadline for readmits to Nursing
 - c. January 2: Final review

Advanced Standing Options

Students seeking advanced standing must start the sequence of nursing courses with an advanced placement course which is offered once a year during the summer. Students are advised to check with the Financial Aid office to determine eligibility for financial aid.

LPN Advanced Standing

Licensed Practical Nurses may receive up to 12 hours of credit based on the equivalent education in their curriculum. Students should have an official copy of their LPN transcript sent to the College prior to acceptance into the program. At least three semesters of nursing courses will be required to complete the nursing component of the degree.

Transfer Student Advanced Standing

A favorable letter of recommendation from the previous nursing program is required to be considered for admission into the program. Without a favorable letter from the previous nursing program, a transfer student will not be admitted.

Students transferring nursing courses from another RN nursing program should send their application and official transcripts to Admissions. The Nursing department will review nursing credits and determine equivalency of coursework for courses with a grade of B or better. Nursing courses over five years old will not be accepted.

College-Level Science Courses

Required college-level science courses completed seven years or more before matriculation in the Nursing program, or with a grade less than C+, must be repeated.

Scholarships

See Scholarship section for sources.

The Program

The Nursing program consists of an arts and sciences component and a nursing component.

Graduates with an A.A.S. in Nursing will be able to utilize the nursing process to assist clients to maintain or restore an optimum level of independence in meeting fundamental needs or to achieve a peaceful death.

Arts and Sciences Component

The arts and sciences component includes 27 credits and two physical education courses. (See program outline for list of arts and sciences courses required.)

Nursing Component

The nursing courses are organized around the concepts of nursing process and human need theory.

Students learn and practice through individualized instruction materials (readings, multimedia materials, taped lecture information, etc.). Small group discussions are held to clarify and reinforce the material. There are rarely any large, lecture-style classes.

Each nursing course has an expected level of achievement stated. The student must satisfactorily demonstrate the required level of performance for each course. This is called competency-based education. The minimum standard of achievement remains constant but the amount of time the student spends to achieve it will vary.

Students determine their own learning needs and goals, and evaluate their own progress. The amount of time students will spend completing the material in each course will depend on their ability, interests, and available study time. In order to promote student success in the program and on the licensing examination, a nationally normed standardized program of comprehensive assessment and review has been incorporated.

Clinical experience begins during the first semester that students are enrolled in nursing courses and continues until graduation. Students spend the first half semester of clinical in the Nursing department learning laboratory. During this time, students get to know each other and faculty, orient to the program and to the profession, and practice nursing skills to prepare for experience with clients in local hospitals. Among the agencies where students gain their clinical experience are Community General Hospital of Greater Syracuse, Crouse Hospital, University Hospital, VA Medical Center, and Syracuse Community Health Center.

Additional Costs

In addition to tuition, books, malpractice insurance¹ and other fees², nursing students are required to have the following:

- Annual physical examination³
- Annual CPR certification⁴
- Laboratory equipment kit
- School uniform, lab coat, name pin, white uniform shoes
- Stethoscope
- Watch with number of seconds visible

Each semester, additional variable expenses include lunches and parking fees during clinical experiences.

Initial and follow-up care as a result of injury or exposure to illness in the clinical setting is at the

student's expense. Neither the College nor clinical agencies assume any responsibility for health care costs. Students must be covered by an active health insurance policy.

A complete list of current expenses can be obtained from the Nursing department.

1. Malpractice insurance is a fee paid to the College to cover students while they function as Onondaga Community College Student Nurses. It is not personal indemnity coverage.
2. In order to cover the cost of the required Review and Assessment Program, all Nursing students will pay a one-time fee when registering for their first NUR course and another one-time fee in their last semester before graduation.
3. New York State law requires that students have a completed and current health form on file in the Student Health Office prior to clinical experience.
4. CPR: For Professional Rescuer: a current certification card from the American Red Cross or American Heart Association valid for one year from date of issue.

Time Commitment

The number of hours per week that a student could expect to spend in class, clinical, study, library, transportation and testing depends on the number of courses for which the student registers and the rate at which the student desires to progress in the Nursing program. It is expected that students will complete the program within two to three years of starting the first nursing course.

Part-time students registered for nursing courses need to plan on an average of twenty hours per week for these courses. Once you begin the nursing component, you will register for four credits of nursing clinical each semester. This equates in time to one (8-hour) day each week in a nursing care setting. Mastery and completion of a particular clinical course may take longer than one semester. In this case, an extended clinical course will give you the extra time needed. Students must also plan on preparatory time to review the chart and pertinent texts, and to prepare the nursing process record weekly. Complete details will be given at each clinical orientation.

Students should consider these time commitments in planning for transportation, child care, and employment. Because of the heavy time commitment in the program, it is strongly recommended that students do not attempt to work on a full-time basis. Class and clinical hours cannot be scheduled around a student's work hours.

Completion Requirements

Arts and Sciences	Credits
English ¹	6
Sociology	3
General or Introductory Psychology	3
Mathematics (Introductory Statistics)	3
Science ²	12
Physical Education Activities	2
Total Credits:	29

Nursing

Level 1 Theory (NUR 180-185)	6
Level 1 Clinical (NUR 191-192)	4
Level 2 Theory (NUR 220, 222-225, 243)	6
Level 2 Clinical (NUR 231-232)	4
Level 3 Theory (NUR 240, 245-248, 266-267)	7
Level 3 Clinical (NUR 255-258) ³	4
Level 4 Theory (NUR 260-265)	6
Level 4 Clinical (NUR 271, 291, 295-298) ³	6
Total Credits:	43
Total Program Credits:	72

Notes:

1. Developmental/Tutorial English courses, English as a Second Language, and English for Foreign students do not satisfy the English requirement.
2. Two (2) semesters of Human Anatomy and Physiology, and one (1) semester of Microbiology, with laboratories, are required. A biology class lacking a hands-on laboratory component may not be substituted.
3. Of the four specialty clinicals, only two will be required at each level.

Academic Requirements

In addition to the requirements outlined in the Academic Rules, the following requirements apply to students matriculated in the Nursing program:

A. Matriculated Status

Because of the limited enrollment capacity of the Nursing program, a matriculated Nursing student in good academic standing who discontinues enrollment for reasons other than graduation for two or more consecutive terms (summer and winter sessions excluded) will be placed on inactive status. Readmission to the program is required and will be considered by the Nursing department.

B. Withdrawals

A student will not be permitted to withdraw from a NUR course after a failing grade has been earned.

C. Grading

1. Grading System

The quality point system used to determine academic standing for students in the Nursing program is as follows:

Exceeds Mastery	EM = 4.0
Mastery +	M+ = 3.5
Mastery	M = 3.0
Mastery -	M- = 1.0
Non Mastery	NM = 0.0

The grade of IP (In Progress) does not carry quality points.

2. Repeated Courses

A student is allowed to repeat a course with NUR prefix only once.

Students who fail to receive M or better for a repeated NUR course will lose matriculation in the program.

D. Academic Standing

1. Loss of Matriculation

A student in Nursing who receives two final grades of NM in clinical courses, including extended and elective clinical courses, will lose matriculation.

2. Reinstatement in Same Curriculum

Contact the Nursing department for specific guidelines.

E. Degree Requirements

Students matriculated in Nursing must achieve a minimal grade of M in all NUR courses and a minimum grade of C in all other required courses, except BIO 171, 172, and 205 for which a minimum of C+ is required.

Notes:

When a grade of C is required, a grade of C- is considered below minimum standards; when a grade of C+ is required, a grade of C is considered below minimum standards.

Graduation Requirements*

1. All requirements outlined for the A.A.S. degree in this catalog.
2. A grade of M (Mastery) or B or better in all required Nursing (NUR) courses.
3. A grade of C or better in all required Liberal Arts and Sciences courses except BIO courses.
4. A grade of C+ or better in BIO 171, 172, and 205.
5. Consistent demonstration of:
 - a) entry-level clinical skills
 - b) safe professional judgment
 - c) academic and professional integrity

Note: When a grade of B or C is required, a grade of B- or C- , respectively, is considered below minimum standards; when a grade of C+ is required, a grade of C is considered below minimum standards.

*The ever-changing nature of nursing and/or refinements in instructional methods may necessitate changes in nursing curriculum requirements and policies. The faculty reserves the right to make such changes with adequate notice given to students active in the curriculum. In addition, the faculty reserves the right to review the current knowledge and skills of students who have taken a course with a NUR prefix five or more years before.

Suggested Semester Sequence

The following suggested plan for full-time students includes four regular semesters and two summer sessions.

Summer Session ¹	Credits
BIO 171 Anatomy & Physiology I	4
PSY 103 General Psychology	3
Physical Education Activity	1
Total Credits:	8

First Semester

ENG 103 Freshman Composition & Literature I (ENG 099, a non-credit course, may be required.)	3
NUR 180 Nursing Process & Concepts I	1
NUR 181 Activity & Rest Needs I	1
NUR 182 Oxygenation Needs I	1
NUR 183 Safety & Security Needs I	1
NUR 184 Nutrition & Elimination Needs I	1
NUR 185 Psychosocial Needs I: Interviewing	1
NUR 191 Introduction to Nursing Process	2
NUR 192 Introductory Nursing Process Clinical	2
Total Credits:	13

Second Semester

BIO 172 Anatomy & Physiology II	4
NUR 220 Nursing Process & Concepts II	1
NUR 222 Oxygenation Needs I	1
NUR 223 Safety & Security Needs II	1
NUR 224 Nutrition & Elimination Needs II	1
NUR 225 Psychosocial Needs II: Ther. Comm.	1
NUR 243 Safety & Security Needs III: Pharm	1
NUR 231 Nursing Process Clinical I	2
NUR 232 Nursing Process Clinical II	2
Total Credits:	14

Summer Session¹

BIO 205 General Microbiology	4
SOC 103 Introductory Sociology	3
Physical Education Activity	1
Total Credits:	8

Third Semester

MAT 118 Statistics: An Empirical Introduction	3
NUR 240 Nursing Process & Concepts III	1
NUR 245 Psychiatric Client Needs I	1
NUR 246 Childbearing Family Needs I	1
NUR 247 Childrearing Family Needs I	1
NUR 248 Gerontological & Palliative Care	1
NUR 266 Childbearing Family Needs II	1
NUR 267 Childrearing Family Needs II	1
Any two of the following Specialty Care Clinicals: NUR 255, 256, 257, or 258	4
Total Credits:	14

Fourth Semester

ENG 104 Freshman Composition & Literature II	3
NUR 260 Nursing Process & Concepts IV	1
NUR 261 Activity & Rest Needs II: Orthopedic	1
NUR 262 Oxygenation Needs II	1
NUR 263 Safety & Security Needs IV: Neuro	1
NUR 264 Nutrition & Elimination Needs III	1
NUR 265 Psychiatric Client Needs II	1
NUR 271 Advanced Nursing Process Clinical	2
NUR 291 Role Transition: Capstone Course	2
Any two of the following Distributive Care Clinicals: NUR 295, 296, 297, or 298	2
Total Credits:	15
Total Program Credits:	72

Notes:

1. Students may choose to carry more than 14 credit hours per semester and not attend summer session.

If Arts and Science course requirements are completed before beginning nursing courses, students may not be able to maintain full-time status with nursing courses only, due to the sequential nature of the nursing courses and the number of nursing credit hours required. Check with the Financial Aid office for requirements for financial aid awards.

Special Considerations

1. Non-discriminatory

Students accepted to the program will be expected to provide care in a variety of settings to individuals and families without regard to race, creed, color, national origin, gender, age or disability.

2. Good Moral Character

In order to be eligible to take RN boards (NCLEX exam), you must have the required educational background and be of good moral character. Persons charged with or convicted of a crime (felony or misdemeanor) in any state or country, or who have committed an act which raises a reasonable question as to the applicant's moral character (e.g., professional misconduct, unprofessional conduct, incompetence or negligence, or the termination of professional training, employment or privilege or voluntary/involuntary leaving to avoid termination by any hospital or licensed facility) shall be referred to the executive director of the Office of Professional Discipline or his/ her designee. This is a lengthy process and the applicant is responsible for his/her own legal fees. A person concerned with his/her eligibility is advised to initiate the process well before graduation.

(Source: Nursing Licensing Application Packet published by the New York State Education Department, Office of Professions)

3. Essential Skills

The following is a representative list of the essential skills, with or without accommodations, expected of students enrolled in the Nursing program:

a. Communication

- i. elicit health history/information from clients, computers, and health records including those written in cursive English,
- ii. give, receive, understand, and be understood regarding relevant verbal English and nonverbal feedback, and
- iii. record information accurately and efficiently.

b. Observation and Sensory Skills

- i. assess pertinent body systems including inspection of skin, respirations, temperature, color, odors, and motor function of the client,
- ii. auscultate (listen for cardiac, lung and abdominal sounds),
- iii. palpate (feel for pulses, lumps),
- iv. percuss (short quick blows by the fingers usually to the chest or abdomen in order to obtain a sound for the determination of density, size or position, and
- v. react/respond to signals, alarms, and other displays indicating immediate client need.

c. Manual Dexterity and Motor Skills

- i. position and transfer clients safely,
- ii. use appropriate handwashing techniques,
- iii. gown, glove and mask appropriately,
- iv. perform sterile techniques,
- v. perform nursing procedures such as bed-bath, making an occupied and unoccupied bed, oral care, and urinary catheterization,
- vi. apply and/or utilize other client care equipment and devices such as stethoscopes, blood pressure cuffs, thermometers and monitors,
- vii. administer medications (IM, Sub Q, IV, suppositories, etc.), and
- viii. perform range of motion (passive) exercises for the client.

d. Conceptual and Analytical Reasoning

- i. demonstrate ability to calculate, measure and analyze,
- ii. exercise good judgment, and
- iii. utilize critical thinking in the process of delivering care and comfort to clients.

e. Social Skills

- i. perform effectively under stress,
- ii. display flexibility,
- iii. demonstrate compassion, and
- iv. develop effective relationships with clients, staff, peers, families and other health team members.

Photography (A.S.)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 252
 PHONE: (315) 498-2154
 EMAIL: OCCINFO@SUNYOCC.EDU

The Photography A.S. degree at Onondaga Community College offers a unique program that builds a strong technical foundation, encourages creative exploration and addresses photography's place in the evolution of visual communication. The program is designed to build skills from the basics of black and white photography through color photography and theory, digital imaging and studio lighting. Specialized areas include photojournalism, commercial photography and fine art applications. This program offers an excellent foundation for transfer to a four-year program or for embarking on a career in the multifaceted photography industry.

Classes are small and are taught in state-of-the-art facilities. Students have extensive interaction with faculty and access to Photography department resources. In addition to academic credentials, the Photography faculty have extensive and diverse experience as regularly exhibiting fine artists, photojournalists, and studio and commercial photographers.

Onondaga Community College's Photography program offers exceptional facilities for film-based black and white and color photography, studio lighting and the latest digital technology for capture, creation, editing and printing.

First Semester	Credits
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
ART 103 Design I	3
ART 105 or 106 History of Art I or II	3
ART 142 Intro to Computer Graphics	3
PHO 100 Basic Photography	3
Physical Education Activity	1
Total Credits:	16

Second Semester	Credits
ENG 104 Freshman Composition and Literature II	3
PHO 150 Advanced Photography	3
PHO 160 Color Photography I	3
ART 101 Drawing I	3
PHO 290 History of Photography	3
Physical Education Activity	1
Total Credits:	16

Third Semester	Credits
PHO 170 Studio and Lighting Techniques I	3
Mathematics/Science elective ¹	3-4
Social Science elective	3
General elective (Western Civilization suggested)	3
ART 152 Color Concept Development	3
Health elective	1
Total Credits:	16-17

Fourth Semester	
PHO 260 Color Photography II	3
PHO 270 Studio Lighting and Techniques II <OR>	
PHO 271 Alternative Photographic Process <OR>	
PHO 272 Documentary Photography	3
Mathematics/Science elective	3-4
Social Science elective	3
General elective	3
Total Credits:	15-16
Total Program Credits:	63-65

Notes:

1. Non-credit courses may have to be taken prior to placement in credit courses.

Physical Education and Exercise Science Studies (A.S.)

OFFICE: HEALTH AND PHYSICAL EDUCATION BUILDING, ROOM 202
 PHONE: (315) 498-2282
 EMAIL: KLEINA@SUNYOCC.EDU

The Associate in Science (A.S.) degree in Physical Education and Exercise Science Studies is suitable for students whose goals include teaching, coaching, sports management, and/or careers in the broad fitness and wellness fields.

This program prepares students for transfer into a bachelor's degree program in physical education, exercise science, sports management, or other fitness/health-related curricula.

The curriculum emphasizes professionalism, wellness lifestyle, health awareness and leadership by providing background knowledge and skills that form the foundation of the fields. Required courses include health, human anatomy and physiology, exercise science, psychology, and specific liberal arts courses.

Graduates are prepared to:

- Explore the variety of fields relating to physical education and exercise studies
- Write and develop lesson plans
- Develop and demonstrate leadership skills
- Conduct fitness assessments
- Prescribe appropriate exercise programs
- Demonstrate a basic knowledge of sport history, rules and strategies
- Provide instruction of athletic skills

First Semester	Credits
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
EXR 180 Introduction to Physical Education and Sport	3
PEH 100 Lifetime Wellness	1
PEH 103 Intermediate Swimming OR REC 105 Recreational Aquatics	1
PSY 103 General Psychology	3
General elective	3
History (Western Civilization) elective ¹	3
Total Credits:	17

Second Semester

BIO 171 Anatomy and Physiology I	4
COM 102 Public Speaking	3
ENG 104 Freshman Composition and Literature II	3
HEA 207 Personal Health	3
PEH 163 Basic Weight Training for Life	1
History (American) elective ²	3
Total Credits:	17

Third Semester

BIO 172 Anatomy and Physiology II	4
REC 102 Activity Planning I	3
REC 201 Team Sports: Teaching and Officiating	2
Humanities elective ³	3
Mathematics elective ³	3-4
Total Credits:	15-16

Fourth Semester

EXR 200 Fundamentals of Exercise Science	3
HFA 203 Standard First Aid and Personal Safety	2
HFA 204 Cardiopulmonary Resuscitation	1
Arts elective ³	3
Foreign Language elective ³	3
Other World Civilizations elective ³	3
Total Credits:	15
Total Program Credits:	64-65

Notes:

1. Acceptable courses: HIS 103 or 104.
2. Acceptable courses: HIS 105, 106, or 107.
3. Consult the SUNY General Education list of courses for course selection in these categories.

Physical Therapist Assistant (A.A.S.)

OFFICE: FERRANTE HALL, ROOM 267
PHONE: (315) 498-2458
EMAIL: OCCINFO@SUNYOC.CEDU

Your Physical Therapist Assistant A.A.S. degree will prepare you for employment as a competent entry-level physical therapist assistant. This program provides the education you need to become a skilled technical worker, prepared specifically to perform physical therapy treatments and related duties as assigned by a registered physical therapist. As a PTA, you will work under the supervision of a physical therapist utilizing prescribed activities to help patients recover physical functions and strength lost through disease, injury or other causes, and to relieve pain and promote healing. Your patient may be a small child born with physical disabilities or an athlete with a shoulder injury, an older person with limited function because of arthritis or a teenager immobilized by an accident.

As a PTA, you might help a patient learn to use crutches, a cane or an artificial limb; to manipulate a wheelchair or other adaptive equipment; or to adjust socially and emotionally to limited activity. You may also assist in patient treatment by using physical agents such as heat, electricity and water as well as massage and exercise.

The Physical Therapist Assistant program is a 69 credit, two-year associate in applied science degree program. It is approved by the New York State Education Department and fully accredited by the American Physical Therapy Association. Upon completion of all course requirements, the graduate will be eligible to take the national exam to be able to practice in most states, including New York. The program is specifically designed to prepare qualified PTAs. It is not designed as a preparatory program for a physical therapy degree.

Most states (including New York) require state certification to practice as a Physical Therapist Assistant. An individual's eligibility for certification may be affected by an existing criminal record. It is the individual responsibility of the student to confirm their eligibility for certification. In New York State, contact The State Board for Physical Therapy at (518) 474-3817, ext. 180.

Admission Requirements

The following are requirements that must be met before application to the PTA Program can be considered:

1. High school diploma or its equivalent;
2. Completion of two years of high school or college mathematics including one year of algebra or MAT 087 (non-credit) at Onondaga;
3. Completion of two years high school or college science including one year of biology; physics and chemistry are also recommended;
4. A grade of C or better in required courses used to meet the prerequisites;

5. A cumulative average of 2.5 (75 or C⁺) for the most recent educational experience;
6. Before registering for PTA courses, the student must have completed Onondaga placement tests and demonstrated competency, placing into MAT 114 and the ENG 103 and RDG 153 level.

Note: You should possess good communication skills and be in excellent health.

The Program

The PTA program consists of 27 credits of general education courses, two physical education credits and 40 credits of PTA courses which include class, lab and clinical experiences.

You are required to earn CPR certification on an independent basis during the first semester of matriculation. The New York State Department regulations require you to have an annual health assessment and to have a health form on file at the College and clinical site prior to carrying out any clinical experience.

Scheduled clinical assignments cannot accommodate work schedules for those students wishing to hold part-time jobs. PTA courses must be taken in sequence as presented in the curriculum. They are held during weekdays only. Due to the intensity of the program, students are strongly encouraged not to try to work more than 20 hours per week.

Additional Costs

In addition to the regular college expenses of tuition, student activity fees, and books, Physical Therapist Assistant students are financially responsible for the following:

1. Physical exam and required immunizations
2. Malpractice insurance - approx. \$8 per semester
3. Personal health insurance - varies (neither the College nor your assigned clinical agency assumes any responsibility for student health care costs)
4. Uniform and namepin for clinical - approx. \$50
5. Transportation to/from clinical assignments
6. Room and board for full-time clinicals (where applicable)
7. Watch with second hand
8. Goniometer - approximately \$15
9. Student membership to APTA - \$85

Essential Skills

A candidate for a physical therapist assistant associate in applied science degree must have the abilities and skills necessary to complete the educational requirements as defined by the American Physical Therapy Association and the state regulatory agencies. The following is a representative list of the essential skills, with or without accommodation, expected of students enrolled in the PTA program.

1. Communication Skills

- a. effectively communicate the patient's progress and mental/physical status to the PT

- b. effectively communicate directions to patients
- c. record accurate, legible progress notes in chart
- d. elicit accurate and pertinent health history/information from the client and chart
- e. accurately and efficiently follow directions

2. Conceptual and Analytical Reasoning

- a. apply didactic knowledge effectively in the clinical situation
- b. demonstrate ability to analyze distinct situations and utilize critical thinking in the process of delivering safe and appropriate care to clients
- c. exercise good judgment in problem solving

3. Social Skills

- a. perform effectively under stress
- b. display flexibility
- c. demonstrate compassion
- d. develop positive and effective relationships with clients, staff, peers and families

4. Physical strength

- a. physically lift an adult in a pivot transfer
- b. demonstrate a two-man lift with an adult
- c. carry out emergency procedures such as patient evacuation and CPR

5. Bilateral Dexterity

- a. carry out stretching exercises, range of motion, and exercise programs such as PNF techniques
- b. adjust crutches/canes/walkers
- c. carry out manual massage techniques
- d. carry out bandaging techniques
- e. set up exercise/treatment machines such as cervical/pelvic traction, Cybex, mechanical lifts, electrical modalities

6. Unilateral Dexterity

- a. adjust/fine tune controls on electrical and heat modalities
- b. demonstrate fine motor skills such as activities of daily living and exercises to patients

7. Balance

- a. maintain balance during guarding of unstable patients on flat surfaces/inclines/stairs
- b. maintain balance during lifting/pivoting of unstable patients

8. Observation and Sensory Skills

- a. assess pertinent body systems including inspection of skin, color, odor; take accurate vital signs (respiration, blood pressure, temperature); and assess motor function of the client
- b. detect and interpret calibrations on modalities, sphygmomanometers, computers, measurement instruments (goniometers, dynamometers)
- c. interpret and respond appropriately to equipment used to monitor patients

- d. judge distance/surface change/depth for ambulating patients on various surfaces
- e. recognize patient call systems/timers/emergency signals

Completion Requirements

The following must be met to nominate for graduation:

1. All requirements written in this College catalog for an A.A.S. degree;
2. All required PTA, BIO 171 and BIO 172 courses completed with a grade of C or higher.
3. A student will be allowed to repeat PTA courses, BIO 171 and BIO 172 only once. Students who fail to receive at least a C after two tries in any one of these courses will lose matriculation in the curriculum and must declare a new curriculum before registering for the next full semester.
4. Successful completion of clinical assignments demonstrating to the faculty safe, proficient entry level skills, professional judgment and integrity.

First Semester	Credits
BIO 171 Anatomy and Physiology I	4
SCI 111 Introduction to Physics and Chemistry	4
PTA 101 Introduction to Rehabilitation	3
PTA 102 Physical Therapy Procedures I	2
PTA 102L Physical Therapy Proc. I Lab	2
PTA 103 Clinical Training I	1
Total Credits:	16

Second Semester

BIO 172 Anatomy and Physiology II	4
PSY 103 General Psychology	3
PTA 104 Physical Therapy Procedures II	2
PTA 104L Physical Therapy Proc. II Lab	3
PTA 105 Functional Anatomy I	3
PTA 105L Functional Anatomy I Lab	0
PTA 106 Clinical Training II	3
Total Credits:	18

Third Semester

ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
PSY 218 Psychology of Disabilities	3
Physical Education Activity (See advisor)	1
PTA 201 Physical Therapy Proc. III	4
PTA 201L Physical Therapy Procedures III Lab	0
PTA 207 Functional Anatomy II	3
PTA 207L Functional Anatomy II Lab	0
Total Credits:	14

Winter Intersession

PTA 205 Advanced Clinical Training I ¹	3
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Fourth Semester	
ENG 104 Freshman Composition and Literature II	3
Physical Education Activity	1
General elective	3
PTA 203 Physical Therapy Procedures IV	3
PTA 204 Seminar	3
PTA 208 Seminar II: Strategies for Success	2
Total Credits:	15

Summer Session	
PTA 206 Advanced Clinical Training II	3
Total Program Credits:	69

Notes:

1. PTA 205 can also be taken during summer at the end of the second year.

Professional Communication (A.A.S.)

OFFICE: MAWHINNEY HALL, ROOM 310
 PHONE: (315) 498-2313
 EMAIL: OCCINFO@SUNYOCC.EDU

If you are looking for a flexible degree to prepare you for a career in business, government and private agencies, administration, or anywhere communication skills are important, then the Professional Communication A.A.S. degree is the program for you. With organizations increasingly emphasizing communication skills, earning the Professional Communication A.A.S. offers a distinct advantage in today's job market. Completion of the degree will give students a competitive advantage in such professions as: communication training and consulting, public and media relations, management and administration, political communication, entertainment, organizational development, mediation, development and fund raising, sales and marketing, speech-writing and professional presentations, and labor/management relations.

While the Professional Communication A.A.S. is designed primarily for students seeking to enter the work force upon graduation, some coursework may be transferable to some four-year institutions and/or degree programs. The extent of transferability of credits will depend upon effective communication between the student, transfer counselor/advisor and the transfer institution in question.

First Semester	Credits
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
COM 101 Interpersonal Communication	3
BUS 101 Contemporary Business	3
CIS elective (CIS 100 or CIS 120)	3
General elective	3
Total credits:	15

Second Semester	Credits
ENG 104 Freshman Composition and Literature II	3
COM 102 Public Speaking	3
Social Science elective	3
General elective	3
COM elective	3
Total credits:	15

Third Semester	Credits
Mathematics/Science elective (A non-credit Mathematics course may be required.)	3-4
Global Awareness elective ¹	3
HUM 270 Assertiveness Training	1
General elective	3
COM elective	3
Physical Education Activities	2
Total credits:	15-16

Fourth Semester	Credits
COM elective	3
BUS 212 Business Correspondence	3
BUS elective	3
General elective	3
Labor Studies elective ²	3
English elective ³	3
Total Credits:	18
Total Program Credits	63-64

Notes:

1. See advisor for appropriate selection.
2. Any course with an LBR prefix or HIS 286 or PSY 211 will fulfill this elective.
3. Students must choose from: ENG 121, ENG 157, ENG 207, ENG 208, ENG 211/212, ENG 227, ENG 251, ENG 252, or ENG 259.

Completion Requirements by department

English (9 credits)
ENG 103* Freshman Composition I (ENG 099, a noncredit course, may be required.)
ENG 104* Freshman Composition II
English elective 200-level*

Communication (15 credits)
COM 101* Interpersonal Communication
COM 102 Public Speaking
Communication electives – choose three from the Communication course offerings

Business (9 credits)
BUS 101* Contemporary Business (Introduction to Business)
BUS 212 Business Correspondence
Business elective*

Other Courses and Electives	Credits
Social Science elective* - PSY, SOC, POS, HIS, ECO	3
Mathematics/Science elective (A non-credit Mathematics course may be required.)	3-4
Computer Information Systems elective*	3
Labor Studies/Workplace elective*	3
Global Awareness elective	3
General electives* – choose 4 courses or a Minor to meet this requirement	12
HUM 270 Assertiveness Training	1
Physical Education Activities -- two 1-credit courses (<i>Students over the age of thirty may waive the physical education requirement</i>)	2
Total Program Credits:	63-64

Notes:

* Indicates online option. It may be possible to do all four of your general elective classes online with proper advisement.

Professional Cooking (Certificate)

OFFICE: GORDON STUDENT CENTER, ROOM 107A
PHONE: (315) 498-2231
EMAIL: OCCINFO@SUNYOCC.EDU

The Professional Cooking certificate is a one-year program for individuals seeking to acquire marketable skills for entry-level positions as:

- assistant chefs
- commercial cooks
- various positions in commercial kitchens

Certificate requirements include two hands-on cooking laboratories and 400 hours of acceptable work experience within the hospitality industry. This work experience must be earned while matriculated in the Professional Cooking program.

Students are encouraged to include FSA 112 Culinary Presentation, FSA 114 Patisserie I and FSA 116 Artisanal Bread Baking in their schedule to augment their culinary arts skills.

Additional expenses will be incurred for an approved uniform and shoes and optional trips to the International Hotel/Motel and Restaurant trade show in New York City, and a tour of the hospitality industry in Las Vegas, Nevada.

Individuals with extensive experience working in the field should contact the Food Service Administration office for information about possible advanced placement.

A list of the Professional Cooking Certificate course requirements is found below.

If you are interested in more information about Food Service Administration programs or any business program and would like to speak to someone, stop by the Food Service Administration office located in the Gordon Student Center, Room 107A, (315) 498-2231, or the Business Administration office located in the Whitney Applied Technology Center, Room 324, (315) 498-2435.

More interesting information about the Food Service Industry and the Walt Disney World College Program can be found at the following sites:

www.acfcchefs.org
<http://www.disneycollegeprogram.com>

First Semester	Credits
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
FSA 100 Food Service Sanitation	2
FSA 103 Basic Food Preparation	4
FSA 102 Basic Nutrition	3
FSA 204 Purchasing, Storage and Handling	3
BUS 102 Mathematics of Business and Finance	3
Total Credits:	18

Second Semester

FSA 210 Catering and Advanced Culinary Arts	4
CIS 100 Computer Information Systems	3
BUS 138 Supervision and Management	3
BIO 110 Introduction to Microbes	3
FSA 207 Menu Planning and Equipment Layout	3
Total Credits:	16
Total Program Credits:	34

Notes:

All students in the Professional Cooking program must have a minimum G.P.A. of 2.0 in discipline courses in order to graduate.

Recreation Leadership (A.S.)

OFFICE: HEALTH AND PHYSICAL EDUCATION BUILDING, ROOM 202
PHONE: (315) 498-2282
EMAIL: WEEKSR@SUNYOCC.EDU

The need for leisure time services continues to grow as society moves toward a shorter work week, longer vacations, earlier retirement, increasing concerns for individual and societal health, an increasing senior population, and the recognition of the need for diverse and inclusive recreation programs. Trained personnel in the field of recreation leadership contribute greatly to the variety and quality of the recreational opportunities offered. The Recreation Leadership curriculum is designed to provide students with a basic foundation in Recreation and Leisure Studies through classroom lectures, experiential activities, and volunteer opportunities within the local community.

Students who intend to transfer after graduation to a four-year college or university to complete a baccalaureate degree program in recreation or a related field (physical education, health, sports management) will transfer with a strong foundation in Recreation, activity teaching/leading, and diversity programming, along with most, if not all, SUNY General Education requirements. Students seeking employment in public or private agencies after successful completion of an A.S. degree will find they have the necessary knowledge and skills for job placement.

The **Recreation and Leisure Studies** field has five different areas of study: therapeutic recreation, commercial recreation, correctional recreation, outdoor recreation, and community recreation.

Therapeutic recreation prepares students to work with special needs populations, which includes people with both mind and body disabilities. Jobs can be found in the following areas: nursing homes, psychiatric facilities, rehabilitation centers, acute care hospitals, adult day care centers, drug treatment facilities, disability camps and many other types of therapeutic agencies.

Commercial recreation is a profit-oriented career field which could include work at theme parks, fitness centers, resorts, private and commercially owned clubs, retirement community complexes, and specialty camps and aboard cruise ships. Students choosing this area will be encouraged to take business courses along with the core recreation courses.

Correctional recreation prepares students to work with juvenile delinquents and prison inmates in a recreational setting such as detention centers, outreach programs and prisons.

Outdoor recreation supports the human desire for adventure and “getting back to nature.” Outdoor recreation prepares students to be outdoor leaders and/or nature interpreters at county and state parks, nature centers, camps, outdoor education centers and zoos. Students desiring employment in outdoor recreation will be encouraged to select science electives along with the recreation core.

Community recreation prepares students to work with people of all age levels in municipal, county and state parks and recreation departments, youth-serving agencies (YMCA, YWCA, scouts, clubs) and special interest non-profit organizations (AAU, Sierra Club, American Youth Hostels). Students with a community recreation focus will be encouraged to take electives in psychology and political science.

The Recreation Leadership program focuses on nearly every aspect of recreation, including group leadership; skill development in team, individual and dual sports; methods of leadership used when working with age groups from young children through senior-aged participants; expressive and creative arts; outdoor recreation and nature study; and water safety and aquatic recreation. In addition to these courses, students are prepared for emergency situations by receiving training in first aid and cardiopulmonary resuscitation.

The A.S. degree program in Recreation Leadership is open to people of all ages and abilities. Recreation Leadership is a Human Service field. The main mission of the recreation leader's work is to assist individuals in increasing their quality of life through the wise use of leisure time. Anyone who meets Onondaga admission requirements and is interested in working with people in a recreational setting is eligible to apply.

First Semester	Credits
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
PSY 103 General Psychology	3
COM 102 Public Speaking	3
REC 101 Intro to Recreation Leisure Studies	3
REC 102 Recreation Skills I	3
REC 105 Recreational Aquatics (See advisor)	1
HFA 203 First Aid and CPR	2
Total Credits:	18

Second Semester	Credits
ENG 104 Freshman Composition and Literature II	3
Social Science elective	3
Curriculum-related elective	3
REC 103 Rec. Skills II	3
REC 104 Group Leadership	3
Total Credits:	15

Third Semester	Credits
REC 207 Expressive Arts in Recreation	3
Social Science elective	3
Curriculum-related elective	3
Natural Science w/ Lab	4
REC 201 Team Sports	2
Total Credits:	15

Fourth Semester	Credits
MAT 112 Nature of Mathematics ¹ <OR>	
MAT 113 Contemporary Math ¹	3
HEA 207 Personal Health	3
REC 204 Outdoor Recreation	4
REC 253 Diversity and Inclusion in Rec	3
Curriculum-related elective	3
Total Credits:	16
Total Program Credits:	64

Notes:

1. Non-credit courses may be required before placement into credit-bearing Mathematics courses.

Respiratory Care (A.A.S.)

OFFICE: FERRANTE HALL, ROOM 267
PHONE: (315) 498-2458
EMAIL: OCCINFO@SUNYOCC.EDU

The program is a five-semester (71-73 credit hours) program leading to an Associate of Applied Science degree in Respiratory Care. The program is accredited by the Committee on Accreditation for Respiratory Care (CoARC) education. The program begins in the spring semester (January).

Students will participate in classroom, laboratory and clinical courses directly related to the profession of Respiratory Care. Students are also required to complete courses in anatomy and physiology, chemistry,

English and one social science elective. Matriculated students who are under 30 years of age are also required to complete two credit hours of physical education (those with military service are exempt).

Clinical experiences will include neonatal, pediatric, geriatric, diagnostic and intensive care rotations. Students provide patient care under close supervision during these rotations. (A malpractice fee of \$8.00 per semester will be charged.) All clinical rotations are taught by registered Respiratory Therapists who hold a license to practice in New York state. A small student to teacher ratio of approximately 5:1 is maintained for clinical courses.

Please Note: Most states (including New York) require licensure to practice Respiratory Care (also known as Respiratory Therapy). Eligibility for a state license may be affected by an existing criminal record. It is the individual responsibility of the student to confirm their eligibility for licensure.

In New York state contact:

NYS Education Department
Office of the Professions
State Board for Respiratory Therapy
89 Washington Avenue
Albany, NY 12234-1000
Phone: (518) 474-3817, ext. 120
E-mail: rtbd@mail.nysed.gov

Admission Requirements

The following requirements must be met before you may be accepted to the program:

1. The primary admission date for the program is the spring semester. The Respiratory Care clinical sequence of classes begins each January. Students will not be admitted to RET classes until all prerequisites for the program have been successfully completed.
2. Students who have satisfied all prerequisites have the option to be admitted to the Respiratory Care program (RPD) in the fall as pre-clinical students. The expected date of graduation for students admitted as “pre-clinical” would be two calendar years beyond the first fall semester (i.e.: a student admitted for the fall of 2008 would graduate in December 2010).
3. Placement will be granted on a first-come, first-served basis to applicants and Onondaga students requesting a curriculum change who have successfully completed all prerequisites. Curriculum changes must be initiated by the student at Student Central.

Prerequisites:

(must be completed before acceptance to the Respiratory Care program)

- a. Biology: High school biology with a grade of C (73%) or higher OR college biology (BIO 106, 121, 151, 152 or equivalent) with a grade of C or higher.
- b. Chemistry: High school chemistry with a grade of C (73%) or higher OR college-level Chemistry (CHE 151, general chemistry or equivalent) with a grade of C or higher.

- c. Successful completion of Onondaga Mathematics and English placement tests. Students must place into MAT 114 and ENG 103.
 - d. Cumulative G.P.A. of 2.5 or higher for previous college work. (This requirement may be waived for previous college work if the student has a more recent transcript establishing a G.P.A. of 2.5 or higher).
4. Once the class is filled with the names of applicants and individuals requesting curriculum changes who have successfully completed all prerequisites will be placed on a list of alternate candidates. Alternates will then be offered seats as they become available.
 5. Deadline: Completed applications and curriculum changes will be considered until the class is filled or until the last day of scheduled classes in the fall semester. This date is identified on the college calendar each academic year.
 6. All new students planning to begin the clinical sequence in the spring semester need to be advised regarding clinical in November of the preceding fall semester.
 7. All students participating in clinical or laboratory courses must be able to perform the “Essential Skills for Respiratory Care Practitioners” as outlined below. (Also available from the Respiratory Care department in Ferrante Hall, Room 267).
 8. Students will be required to earn CPR certification prior to beginning clinical rotations.
 9. Any student expressing interest in the Respiratory Care program should contact the department at (315) 498-2458 as soon as possible for further advisement.

Essential Skills

A candidate for graduation from the Respiratory Care Program must demonstrate the skills and abilities required to function as a Respiratory Care Practitioner (RCP) and provide for patient safety. These skills and abilities have been defined by the national credentialing organization, The National Board for Respiratory Care (NBRC). The following is a representative list of these essential skills, with or without accommodation, expected of students enrolled in the Respiratory Care program.

1. Communication Skills

- a. Effective verbal communication with patients, physicians, RCPs, nurses and other health professionals.

For example:

- i. report on patient progress/status
- ii. discuss patient care plans and make recommendations for change
- iii. instruct patients for therapy/patient education

- b. Effective, legibly written communication.

For example:

- i. write progress notes in the patients medical record

- ii. document patient data on flow sheets and charts (entering numbers in small boxes on department forms)
 - iii. write patient care plans, case studies and reports
- c. Basic Computer Skills.

For example:

- i. Data entry pertaining to patient therapy
- ii. Order entry for department management

2. Conceptual and Analytical Reasoning

- a. Apply didactic knowledge effectively in the clinical setting.

For example:

Recognize potential adverse effects of therapy and respond with the appropriate intervention(s)

- b. Demonstrate ability to recommend appropriate changes in prescribed therapy based on the patient assessment process
- c. Exercise good judgment in problem solving

3. Social Skills

- a. Perform job duties effectively under stress
- b. Display flexibility and a cooperative attitude
- c. Willingly accept constructive criticism and modify behavior appropriately

4. Manual Dexterity and Motor Skills

- a. Demonstrate the ability to maintain aseptic and sterile techniques

For example:

Scrub hands; don gloves, gown and mask

- b. Demonstrate the ability to maintain aseptic technique while performing respiratory care procedures

For example:

- i. Endotracheal suctioning
- ii. Arterial blood sampling

- c. Adjust/fine tune analog, digital and computer-based controls on electrical equipment

For example:

- i. Mechanical ventilators
- ii. Pulmonary function measuring devices

- d. Attach and safely manipulate pressurized medical gas devices

For example:

- i. Oxygen cylinder regulators
- ii. Flowmeters
- iii. High pressure hoses

- e. Perform diagnostic and therapeutic percussion techniques

5. Other Physical Skills

- a. Stand and walk for extended periods of time
- b. Physically support an adult patient in a pivot transfer

- c. Lift an adult in a two-person lift

- d. Lift objects up to 30 pounds

For example:

oxygen cylinders up to size “E”

- e. Carry out emergency procedures such as CPR and patient evacuation

6. Observation and sensory skills

- a. Demonstrate appropriate visual acuity

For example:

- i. Accurately interpret analog and digital gauges, monitors and pressure manometers
- ii. Perform assessment of the patient (skin color, posture, work of breathing, etc.)
- iii. Calibrate monitoring devices (pulmonary function measuring devices)

- b. Demonstrate appropriate auditory acuity

- i. Recognize and respond to alarms (mechanical ventilators, heart monitors)
- ii. Use a stethoscope for chest auscultation (lung sounds) and blood pressure measurement

Graduation Requirements

1. Successful completion of all RET classes with a grade of C or higher.
2. Successful completion of BIO 171, BIO 172, CHE 151, CHE 152 with a grade of C or higher.
3. Successful completion of ENG 103, ENG 104, Social Science elective (3 credit hours) and Physical Education Activities (2 credit hours). Physical Education requirement is waived for individuals with military experience or those over 30 years of age at the time of matriculation into the Respiratory Care program.
4. Please note: There are some semesters in the RPD where students will not be able to maintain full-time status with RET courses only.
5. Students must also satisfy all associate degree requirements as listed in this section.
6. Students may attempt an RET or required science course (BIO and CHE) twice. An attempt is interpreted as a grade entered on a student's transcript. This would include grades of W or X. Following two unsuccessful attempts at any RET or science course, the student will be de-matriculated from the RPD curriculum.
7. All RET classes are valid as prerequisites for continuation courses for 18 months. For example, if a student successfully completed RET 139 in the fall 2005 semester, the next course in the sequence (RET 213) must be completed no later than the spring 2007 semester.

Note: Please review the information regarding state licensure under the program description above.

First Semester - Spring	Credits
RET 101 Medical Physics	1
RET 102 Mechanics of Disease	2
RET 103 Respiratory Physiology I	3
RET 105 Respiratory Care Practice I	2
RET 105L Respiratory Care Practice Lab	1
RET 118 Freshman Clinical I	3
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
Total Credits:	15

Summer Session

RET 125 Respiratory Care Practice II	1
RET 125L Respiratory Care Practice II Lab	1
RET 126 Mechanical Ventilation	2
RET 126L Mechanical Ventilation Lab	1
RET 128 Freshman Clinical II	4
Total Credits:	9

Second Semester - Fall

RET 130 Neonatal Respiratory Care	1
RET 134 Respiratory Disease	3
RET 139 Freshman Clinical III	4
RET 142 Home Care and Rehabilitation	1
RET 144 Applied Physiology II	1
RET 145 Respiratory Seminar I	1
BIO 171 Anatomy and Physiology I	4
Total Credits:	15

Third Semester - Spring

CHE 151 Chemistry for Health Professions	3
RET 205 Cardiovascular Physiology	3
RET 213 Sophomore Clinical I	3
BIO 172 Anatomy and Physiology II	4
ENG 104 Freshman Composition and Literature II	3
Physical Education Activity ¹	1
Total Credits:	17

Fourth Semester - Fall

CHE 152 Chemistry for Health Professions	3
RET 206 Acid-Base Physiology	3
RET 207 Diagnostic Techniques	3
RET 214 Sophomore Clinical II	3
RET 211 Respiratory Seminar II	1
Social Science elective	3
Physical Education Activity ¹	1
Total Credits:	17
Total Program Credits:	73

Notes:

1. Physical Education requirement is waived for individuals with military experience or for those over 30 years of age at the time of matriculation into the Respiratory Care program.

Surgical Technology (Certificate)

OFFICE: FERRANTE HALL, ROOM 267
PHONE: (315) 498-2458
EMAIL: OCCINFO@SUNYOCC.EDU

Surgical technologists are highly trained individuals qualified by didactic and clinical training to provide services in the operating room. They function in association with nurses and surgeons to help provide high-quality care of the surgical patient.

Onondaga's Surgical Technology program was designed to fill the personnel needs of area hospitals, outpatient surgery centers, and surgeon's offices for surgical technologists. The demand locally and nationally for trained surgical technologists is constant. Even if you have no previous experience in the health field, you can be prepared for employment after eleven months of study (see special admission requirements). If you are a homemaker, recent high school graduate, or displaced worker, or if you desire a career change, this program may be of interest to you.

The Surgical Technology program includes clinical experiences that begin during the first semester and continue until completion of the program. You will gain your clinical experiences in the hospital and outpatient surgery centers in Syracuse and its surrounding areas.

Costs:

In addition to the regular college expenses of tuition, student activity fees, and books, Surgical Technology students are financially responsible for the following:

1. Physical exam and required immunizations
2. Malpractice insurance - \$8 per semester
3. Personal health insurance – varies (neither the College nor your assigned clinical agency assumes any responsibility for student health care costs)
4. Transportation and parking to/from clinical assignments – ranges from \$0 - \$14 per day
5. Name tag and shoes used specifically for clinical assignments - approx. \$60

Admission Requirements

Before an application to the program can be considered, the student must have the following requirements:

1. An overall cumulative average of 2.5, 73, or C or higher from the student's most recent high school or college experience;
2. A high school diploma or equivalent;
3. One year of high school mathematics (Math A is recommended) or equivalent;
4. One year of high school chemistry, or CHE 151 at Onondaga or General Chemistry or equivalent;

5. One year of high school biology, or BIO 151 or BIO 152 or BIO 106 or BIO 121 (preferred) at Onondaga;
6. A grade of 73 or C or better in high school or college courses used to meet prerequisites;
7. Completion of placement tests demonstrating placement into MAT 114, and placing at ENG 103 level and RDG 153 level.

Essential Skills

A candidate for a certificate in surgical technology must have the abilities and skills necessary to complete the educational requirements as defined by the national accrediting body for national certification. The following is a representative list of the essential skills, with or without accommodation, expected of students enrolled in the surgical technology program.

1. Communication Skills:

- a. Effectively communicate with surgeons and co-workers regarding requirements and supplies for surgical procedures while all are wearing masks
- b. Effectively communicate directions to peers
- c. Accurately and efficiently follow directions
- d. Provide effective, coherent, legibly written communication

2. Conceptual and Analytical Reasoning:

- a. Apply didactic knowledge effectively in the clinical setting
- b. Demonstrate ability to analyze distinct situations and utilize critical thinking in the process of delivering safe and appropriate care to clients
- c. Exercise good judgment in problem solving

3. Social Skills:

- a. Perform effectively under stress
- b. Display flexibility
- c. Demonstrate compassion
- d. Develop positive and effective relationships with physicians, staff, and peers

4. Manual Dexterity and Motor Skills:

- a. Demonstrate ability to perform surgical scrub using standard equipment
- b. Gown, glove, and mask appropriately
- c. Perform surgical procedures employing sterile technique
- d. Identify and pass instruments, supplies, and suture/needle combinations in rooms dimly lit or very bright
- e. Attach and manipulate power equipment and endoscopic cameras

5. Physical Strength

- a. Assist with transferring anesthetized patients
- b. Lift, move, and carry instrument trays weighing up to 17 - 21 pounds
- c. Stand, sometimes with little movement, for four - five hours

6. Observation and Sensory Skills

- a. React/respond to signals, alarms, and other displays indicating immediate patient need
- b. Judge obstacles encountered during movement around sterile area, i.e. cords on floor, low ceiling lights.
- c. Immediately identify and respond to breaks in aseptic technique by anyone in the sterile area

Completion Requirements

1. All requirements listed here for a certificate in Surgical Technology.
2. All required SGT courses, and BIO 111, BIO 171 and BIO 172 completed with a grade of C or higher, with the exception of SGT 103L, SGT 105, and SGT 115, which require a B.
 - a. SGT courses may be repeated only once if failing grades are earned
 - b. Only two registrations allowed for completion of BIO 171 or BIO 172
 - c. BIO 171 and 172 must have been completed within seven years of admission into the program
3. Successful completion of clinical assignments; demonstration of safe, proficient entry-level skills; professional judgment and integrity.
4. Completion of the National Surgical Technologist (CST) examination prior to exiting the program.

First Semester	Credits
BIO 171 Anatomy and Physiology	4
BIO 111 Microbiology for Surgical Technology	1
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
SGT 101 Introduction to Surgical Technology	3
SGT 102 Surgical Pharmacology	1
SGT 103 Principles of Surgical Technology	3
SGT 103L Principals of Surgical Technology Lab	2
Total Credits:	17
Second Semester	
BIO 172 Anatomy and Physiology	4
SGT 111 Surgical Procedures	5
SGT 105 Clinical Practice I	5
Total Credits:	14

Summer Session	
SGT 115 Clinical Practice II	6
Total Program Credits:	37

Telecommunications Technology (A.A.S.)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 131
 PHONE: (315) 498-2451
 EMAIL: OCCINFO@SUNYOCC.EDU

This is a technically oriented program of study leading to an A.A.S. degree in Telecommunications Technology. The course of study involves fundamental concepts of circuit analysis, electronics, digital and microcomputer hardware with an emphasis on telecommunications hardware and software. This curriculum offers background in the liberal arts in addition to courses in the field of specialization.

Students who wish to enroll in the program should have two years of high school mathematics. Students lacking the recommended mathematics background are strongly urged to enroll in the Foundations of Technology program.

Graduates with an A.A.S. degree in Telecommunications Technology are prepared to seek employment in the field or pursue a bachelor's degree. Graduates who wish to continue for a bachelor's degree in engineering technology can be accepted as third-year students at many colleges and institutions.

First Semester	Credits
CMT 101 Introduction to Computers/ Applications	4
ELT 141 Circuits I	4
Mathematics ¹	4
TEL 241 Telecommunications I – Voice Communications	4
Physical Education Activity	1
Total Credits:	17

Second Semester	Credits
CMT 171 Digital Electronics	4
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
ELT 161 Electronics I	4
TEL 242 Telecommunications II – Data Communications	4
Physical Education Activity	1
Total Credits:	16

Third Semester	Credits
CMT 102 PC Hardware, Operating Systems and Support	4
ENG 104 Freshman Composition and Literature II	3
TEL 243 Telecommunications III – LANs	4
Social Science/Philosophy elective ²	3
Total Credits:	14

Fourth Semester	Credits
ELT 265 Communications Systems I	4
PHY 101 Technical Physics I ³	4
HEA 206 Studies in Health and Wellness	1
TEL 244 Telecommunications IV – Advanced Topics	4
Social Science/Philosophy elective ²	3
Total Credits:	16
Total Program Credits:	63

Notes:

1. Student should successfully complete MAT 143 Pre Calculus to meet the mathematics requirement. Students may have to take additional mathematics courses to meet the prerequisite of MAT 143.
2. Two courses in the Social Sciences/Philosophy division are required and may be chosen from a combination of Anthropology, Economics, History, Philosophy, Political Science, Psychology or Sociology.
3. Students may take PHY 101, PHY 103 or PHY 105. Only one course will be credited toward the degree requirement.

Telecommunications Technology-Verizon A.A.S.

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 131
 PHONE: (315) 498-2451
 EMAIL: OCCINFO@SUNYOCC.EDU

This is a technology oriented program of study that has been designed in cooperation with Verizon Corporation, the Communications Workers of America and the International Brotherhood of Electrical Workers. This program is offered at several community colleges throughout New York state and gives qualified workers an opportunity to earn an A.A.S. degree in Telecommunications while continuing work. The employees who qualify for this option are scheduled and sequenced to complete the program over a four-year period while attending classes one day per week.

First Semester	Credits
MAT 106 Mathematical Applications I	4
CMT 110 Computer Applications for Technologist	3
Total Credits:	7

Second Semester	Credits
ENG 103 Freshman Composition and Literature I (ENG 099, a non-credit course, may be required.)	3
ELT 131 Electric Circuits for Telecommunications	4
Total Credits:	7

Third Semester	Credits
MAT 107 Mathematical Applications II	4
ELT 153 Electronics I for Telecommunications	4
Total Credits:	8

Fourth Semester	Credits
PHY 101 Technical Physics I	4
ELT 257 Electronics II for Telecom	4
Total Credits:	8
Fifth Semester	Credits
CMT 161 Digital Electronics I for Telecommunications	4
TEL 241 Telecommunications I - Voice Communications	4
Total Credits:	8
Sixth Semester	Credits
CMT 180 Computer Systems for Telecommunications	4
TEL 242 Telecommunications II - Data Communications	4
Total Credits:	8
Seventh Semester	Credits
ENG 104 Freshman Composition and Literature II	3
TEL 243 Telecommunications III - LANs	4
Total Credits:	7
Eighth Semester	Credits
LBR 255 Labor History	3
TEL 244 Telecommunications IV - Advanced Topics	4
Total Credits:	7
Total Program Credits:	60

Web Technology (Certificate)

OFFICE: WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 230
 PHONE: (315) 498-2425
 EMAIL: OCCINFO@SUNYOC.C.EDU

The growth of the Internet and Web-based technology offers many career opportunities. This certificate is intended for students with previous college and/or work experience wanting to retrain in a credit-course environment. The courses will prepare the students to create and maintain Web pages, and manage Web servers. Electives offer the opportunity to enhance skills in the areas of marketing, communication, graphic design, Web programming, server management and others. Courses may be offered in an accelerated or distance-learning mode when demand is sufficient.

First Semester	Credits
CSC 110 Program Design and Development	4
CIS 130 Foundations of the Internet ¹	4
Choose One:	
ENG/JRN 121 Introduction to Journalism ²	
ENG 259 Technical Writing	
BUS 212 Business Correspondence	
ENG 211 Intermediate Composition	3
Curriculum electives	6
Total Credits:	17

Second Semester	Credits
CIS 230 Web Site Design	4
CSC 250 Client-Server Operating Systems	3
CSC 264 Java Programming	4
ART 142 Intro to Computer Graph	3
CIS 231 Web Server Management	4
Total Credits:	18
Total Program Credits:	35

Recommended Curriculum Electives³:

CIS 106 Intro to Digital Media	3
CIS 125 Prin Info Sys II	4
CIS 255 Data Base Design and Development	3
CIS 271 Internetworking I	4
ART 244 Visual Design	3

Notes:

1. With Permission of Instructor, students with prior Unix experience may substitute a Curriculum elective.
2. May need to take ENG 099, ENG 103, and ENG 104 if no previous college experience.
3. Other electives are available; please meet with your advisor.