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This catalog provides information about academic policies/rules, financial aid, placement statistics, and academic programs for students enrolled in programs at the National Technical Institute for the Deaf at Rochester Institute of Technology. It is meant to be used in conjunction with the 1984-85 NTID Course Catalog. For more detailed information, consult the *Course Catalog*.



About This Bulletin

This bulletin does not constitute a contract between Rochester Institute of Technology (RIT) and the students who are admitted to the National Technical Institute for the Deaf (NTID) on either a collective or individual basis. It represents RIT's best academic, social, and financial planning for NTID at the time it was published. In order to keep programs current and relevant, course and curriculum changes, modifications of tuition, fee, dormitory, meal and other charges, plus unforeseen changes in other aspects of RIT life sometimes occur after the bulletin has been printed but before the changes can be incorporated in a later edition of the same publication. Because of this, RIT does not assume a contractual obligation with NTID students for the contents of this bulletin.

For more information concerning other programs of study at RIT, write or phone:

Rochester Institute of Technology
National Technical Institute
for the Deaf
Department of Career Outreach
and Admissions
One Lomb Memorial Drive
Post Office Box 9887
Rochester, New York 14623

(716) 475-6631 (Voice)
475-6173 (TDD)

GENERAL INFORMATION

The Partnership: The National Technical Institute for the Deaf at Rochester Institute of Technology

The National Technical Institute for the Deaf (NTID) is one of nine colleges at Rochester Institute of Technology (RIT). NTID is the first effort to educate large numbers of deaf students within a college campus planned primarily for hearing students. Unique in the world, NTID is a vital part of RIT's 1,300-acre campus in suburban Rochester, New York.

NTID provides educational opportunities for qualified deaf students from every state in the nation.

The fact that NTID is located on a college campus designed primarily for hearing students is important to the students' academic, personal, social, and communication development. NTID academic programs lead to certificates, diplomas, and associate degrees from RIT. An associate degree in Interpreting for the Hearing Impaired is offered for hearing students.

Most NTID students take some courses along with hearing students in the other colleges of RIT: Applied Science and Technology, Business, Continuing Education, Engineering, Fine and Applied Arts, Graphic Arts and Photography, Liberal Arts, and Science.

Some NTID-sponsored students are full or part-time students in the associate, bachelor's, and master's degree programs of these other colleges. Special educational support departments made up of NTID staff members help them in their studies in those colleges.

Historically, 66 percent of the students entering RIT through NTID have graduated from these programs. An additional nine percent benefit from some preparatory work and then transfer to another postsecondary institution to complete their education.

A special feature of most RIT colleges, including NTID, is the cooperative (co-op) education program. Co-op, established at RIT in 1912, symbolizes its "learning by doing" philosophy.

Facilities

A special academic/residence complex was completed in 1974 to serve NTID at RIT. The Hugh L. Carey Building was added in 1983. The residence halls, academic buildings, and dining commons were each designed to meet the specific needs of deaf students. The buildings are designed to provide a living/learning experience. All buildings are used to bring deaf and hear-



ing students together—to live together and to share educational purposes.

The Lyndon Baines Johnson Building is the main academic building at NTID. It has laboratories, offices, speech and hearing areas, classrooms, and a 500-seat theatre with closed-circuit television. Students meet and relax after classes on colorful, plant-filled hallways, or "streets," which run down the center of the facility.

To cut down on distractions, classrooms are designed without windows. Colors are soft, and seats are placed in a semicircle to allow the best possible vision from all parts of the room. The seats turn so that students can always see each other. Projection equipment is located outside the classroom area to cut down on noise.

Television, a basic part of NTID's communication network, is used both for education and entertainment. TV monitors are visible throughout the buildings. Four viewing channels are in the television system. Two well-equipped studios produce class and self-instruction videotapes and all captioning done at NTID.

Learning centers offer students self-paced instruction, small group classes, and individual attention. These centers are set up for instruction in English, math, physics, reading, science, telecommunications, and writing. Self-instruction labs encourage students to practice their communication skills.

The residence halls in the complex contain dormitory rooms, recreation areas, student lounges, and study and conference areas. Residence halls are available for single students, and on-campus apartments and townhouses are available for married students. The three residence halls shared by deaf and hearing students are: Mark Ellingson Hall, Peter N. Peterson Hall, and Alexander Graham Bell Hall.

The Hettie L. Shumway Dining Commons has a large dining room and complete food service facilities.

Other special features for deaf students include visual emergency warning systems in the academic buildings and residence halls, a sophisticated telecommunications system linking all parts of the RIT campus, and a hearing aid shop.

Wallace Memorial Library

RIT's Wallace Memorial Library is a true multi-media learning center. It has the largest microfilm collection and the greatest use of nonprint media of any area college library.

Students researching topics find many resources in the on-line computer catalog, printed matter in miniature on microfilm and microfiche, videocassettes, motion pictures, slides, filmstrips, sound/filmstrips, slidetapes, Super 8 cartridges with audio-cassettes, and traditional books and magazines.

Reference librarians are on duty seven days a week to assist students in the use of all library resources. More than 900 student study stations are located on the three floors of the library. Study stations include individual study carrels and group study rooms.

Student art and photography work is exhibited in gallery and display areas, and outstanding student art work is permanently displayed. There are several lounge areas.

The library contains a special collection of materials about deafness. These materials serve NTID and support research by anyone wishing to study the problems of deafness. A librarian on the reference staff is available to aid NTID students seeking assistance. In a special collection area archives, rare books, faculty writings, and RIT theses are contained. The Graduate Chemistry Library supplements the main library.

The regular hours for the library are:
8 a.m.-11 p.m., Monday-Thursday;
8 a.m.-9 p.m., Friday; 9 a.m.-6 p.m., Saturday;
and noon-9 p.m., Sunday. Special hours for exam time, breaks, and holidays are posted.

The Campuses

RIT's main campus, in suburban Rochester, New York, opened in 1968. It has received several architectural awards and is a significant building accomplishment of the greater Rochester area.

The Rochester campus includes nearly 1,300 acres of land, and will provide for RIT's growth and development for many years.

RIT's Rochester campus is located about five miles from downtown Rochester, on Jefferson Road (Route 252). It is only a short distance from shopping centers, motels, the New York State Thruway (Interchange 46), and Rochester's major expressways. There is public transportation to the campus and free parking on campus.

The Rochester campus has an academic/administration complex of 14 buildings arranged as three quadrangles. The residential complex has 16 interconnected buildings reached by a quarter-mile path that passes tennis courts and playing fields.

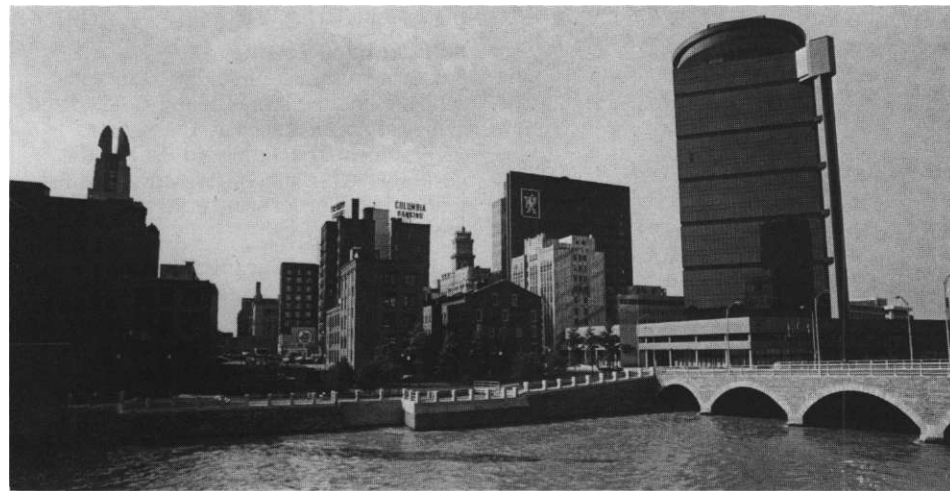
RIT's City Center at 50 West Main Street in downtown Rochester is easily reached by public transportation.

The Community

About 700,000 people live in the Greater Rochester area. Known for its leadership in technology and science, Rochester is an ideal community for RIT.

Rochester is an international photographic center and the largest producer of optical goods in the United States. Rochester-based industries manufacture electronic and communication systems, fine machine tools, signaling devices, dental equipment, and a variety of precision instruments. Its printing and lithographic houses are widely known for quality work. These local industries, and many others throughout the nation, have supported RIT financially. Many of these industries have offered cooperative employment. All have provided a friendly community atmosphere for RIT.

Rochester also is a cultural center. Rochester citizens support music, art, theatres, libraries, and museums.



What There Is to See and Do

Rochester and nearby: George Eastman House (with its International Museum of Photography); Susan B. Anthony House; Strasenburgh Planetarium; Rochester Museum and Science Center; Memorial Art Gallery; Margaret Woodbury Strong Museum; professional teams in hockey and baseball; several summer theaters; golf courses; canoeing on the Genesee River; sailing on Lake Ontario; orchestral concerts (many free); parks and bike trails; excellent shopping malls; and other colleges with exchange privileges.

Twenty to fifty miles: Recreational opportunities throughout the Finger Lakes region; Stony Brook Park; Letchworth Park ("Grand Canyon of the East"); Hamlin and Sodus Beach parks; Sonnenberg Gardens; famous wineries; and Hill Cumorah Mormon Pageant.

Day trip or weekend: Niagara Falls; Artpark; Buffalo; Toronto; Allegheny State Park; Adirondack Mountains; Lake Placid (site of 1980 Winter Olympics); Thousand Islands; Watkins Glen; Corning Glass Center; and Stratford Shakespeare and Chautauqua festivals.

ADMISSION

Admission Requirements

To qualify for admission to RIT through NTID, students must meet certain standards agreed upon by RIT and the U.S. Department of Education. RIT considers these standards in finding out if an applicant will qualify for admission to RIT under the sponsorship of NTID.

1. Special Help

Students should have attended a school or class for deaf students and/or have needed special help because of deafness.

2. Hearing Loss

Students must have a hearing loss that seriously limits their chance of success in college without special support services. There is a general agreement that an average hearing loss of 60 decibels (ASA) or 70 decibels (ISO) or greater across the 500, 1,000, and 2,000 Hz range (unaided) in the better ear is a major handicap to education.

3. Educational Background

Students' educational backgrounds should show that they can probably succeed in a program of study at NTID or one of the other colleges of RIT. Students who are admitted should have an overall eighth-grade achievement level or above on a standardized achievement test that includes reading, math, and language.

4. Secondary Schooling

The NTID program is designed for students who have finished a secondary educational program. Students can be considered for admission before completing a secondary program if their secondary school authorities feel that they will gain more from the NTID program than by remaining in secondary school. Age and personal/social maturity are given special consideration in such a situation.

5. Maturity

Students must show that they are personally and socially mature enough to enter a program at NTID or one of the other colleges at RIT. This means that students must accept responsibility for themselves and their actions and respect the rights of others. The information is provided through students' personal references and performance in high school.

6. Citizenship

Students must be citizens or permanent residents of the United States.

Career Opportunities Advisors

The career opportunities advisors of NTID at RIT are important to students, parents, high school counselors, and vocational rehabilitation counselors. They have the most up-to-date information about career development of deaf students, technical career education, admission requirements, and educational awareness.

Each advisor is assigned to different states. Career opportunities advisors visit schools all over the United States to discuss:

- technical career education
- communication development
- liberal arts education
- careers and educational awareness
- NTID and the other colleges of RIT
- other postsecondary programs for deaf students

They also meet with visitors and help prospective students and their parents learn about RIT and the many career programs it offers.

Career opportunities advisors also are admission counselors. They are responsible for answering all admission questions and applications for their assigned states. The career opportunities advisors are:

Tom Connolly	(716) 475-6816 (Voice and TDD)
Joe Dengler	(716) 475-6308 (Voice and TDD)
Howard Mann	(716) 475-6273 (Voice and TDD)
Jeri Stanton	(716) 475-6398 (Voice and TDD)
Carol Kelley	(716) 475-6304 (Voice and TDD)

For more information on admission, or to find out the name of the career opportunities advisor assigned to your state, call: (716) 475-6700, 475-6236, or TDD 475-6173-

Application Tips

When to Apply

High school students should apply in the fall of their senior year. Transfer students should also apply in the fall for admission to the Summer Vestibule Program or September enrollment.

Rolling Admissions

Applications are accepted and admission decisions are made all through the admission year. This process is called rolling admissions. Qualified applicants are accepted on a first-apply, first-admitted basis. A student's **date of application** is the date when application information has been received by the Department of Career Outreach and Admissions at NTID.

The Admission Year

The admission year is from October 1-June 30. Because of the rolling admissions policy, **students should submit their applications in the fall of the year before they wish to attend.**

Waiting List

RIT and the U.S. Department of Education decide the number of deaf students to be accepted for sponsorship by NTID every year. A waiting list is established when there are more qualified applicants than student places for NTID at RIT.

Standardized Testing

Students must make sure that their high schools send the scores of any standardized achievement tests such as: the Stanford Achievement Test, Advanced Battery; the California Achievement Test, Advanced Battery; or other major standardized achievement tests.

A decision on an application cannot be made without appropriate achievement test scores. The tests sent should be appropriate for a deaf student. The Scholastic Aptitude Test (SAT) of the College Entrance Examination Board often is given to deaf students in public high schools. For most students, this test usually is not appropriate because deafness strongly affects language and reading development. Therefore, the reading and language level of the CEEB test often results in meaningless scores for deaf students.

Questions about Testing

Students should contact the career opportunities advisor for their state if they have questions about a particular standardized test.

Personal Interview

A personal interview with one of the NTID career opportunities advisors is available for each applicant. Students who plan to visit NTID and want interviews with career opportunities advisors should write or call for an appointment by contacting the Department of Career Outreach and Admissions at (716) 475-6318, 475-6236, or TDD 475-6173.

Visiting the Campus

A visit to NTID and the rest of RIT is not required for admission. However, a visit very often can help students make their final decision about where to go to college.

Special visits and tours are available to students and their parents or to groups of students. Tours are regularly scheduled at NTID for 10 a.m. and 2 p.m., Monday and Thursday, and 10 a.m., Tuesday, Wednesday, and Friday.

Visits should be scheduled **at least three weeks in advance**, whenever possible.

Prospective students should notify the Visitations Specialist in the Department of Career Outreach and Admissions by calling (716) 475-6318, or TDD 475-6173. All other visitors may contact the Visitors Center at (716) 475-6405, 475-6406, or TDD 475-2181.

Transfer from Another Postsecondary School

Students from other postsecondary educational programs or colleges are encouraged to apply for admission to RIT through NTID if

- they need support services such as interpreting or tutoring to help them in their college studies, and these services are not available at the school in which they are or were enrolled;
- they decide to change their program of study to one that is not offered at the college they currently attend, but is offered by NTID or another college of RIT;
- they have completed a postsecondary program and decide they want or need more training in their program of study. Through NTID, students can get advanced degrees by cross registering into any of RIT's other colleges.

All transfer applicants must meet admission requirements. For more information on requirements, see page 4.



Transcripts

Transfer students must ask the registrar at their postsecondary school to send transcripts of all courses to the Department of Career Outreach and Admissions at NTID. Students who are now enrolled in courses should include course numbers.

College Catalog

Students also must send catalogs from the schools they have attended to the Department of Career Outreach and Admissions at NTID. Students should write their names inside the catalog. The catalogs will be used to evaluate their transcripts for possible transfer credit.

Transfer Credit

Students usually receive transfer credit for courses at another college or university **if**

- they completed the courses with a grade of "C" or better;
- the courses compare to courses in the student's new RIT program.

Transfer students will find out about transfer credit in their letter of acceptance to an RIT program. Transfer students in SVP will find out about transfer credit when they are accepted into a specific program or major. (See page 13)

For more information about transferring, contact the Department of Career Outreach and Admissions at NTID.

Associate Degree Transfer

Students with an associate degree in an appropriate curriculum may qualify for transfer into the upper division of an RIT program of study under NTID's sponsorship.



Student Checklist for Admission and Program Selection

1. To get an application packet for admission to RIT through NTID, write or phone the NTID Department of Career Outreach and Admissions or one of the NTID career opportunities advisors.

2. Fill out the application form. Send it to the Coordinator of Admissions for NTID (with a 125 application fee) in the return envelope provided.

3. Send the secondary school record form to your secondary school official; the audiological record form to a certified audiologist; the requests for personal references to four people; and the vocational rehabilitation (VR) information to a VR counselor.

4. Have the completed secondary school record, audiological record, personal references, and VR information sent directly to:

Rochester Institute of Technology
National Technical Institute for the Deaf
Coordinator of Admissions
One Lomb Memorial Drive
Post Office Box 9887
Rochester, New York 14623

5. After receiving all the forms, NTID will make a decision on your application. NTID will write you about the decision.

6. If you do not meet admission requirements, a career opportunities advisor will help you find other postsecondary programs on request. You also will receive a copy of *A Guide for College Career Programs for Deaf Students*.

7. If you meet admission requirements, you will be considered for entry into the Summer Vestibule Program (SVP). Most high school students are admitted to the Summer Vestibule Program. Transfer students with limited college experience and/or unclear career goals may also be admitted to SVP. See page 13 for more information about SVP.

8. When you are accepted, you must send an admission deposit of \$100. The deposit will guarantee you a place in the new entering class. You must send the deposit by May 1. The deposit will be used toward your first quarter charges.

9. Acceptance into SVP does not automatically guarantee admission to the program you select during SVP. The final decision on your acceptance into a program of study in the fall quarter is the responsibility of each academic department. Admission to a program of study depends on the following:

- passing SVP
- having enough skills to begin the program
- space available in the program

If space is limited, students will be selected to enter a program on the basis of their skills, motivation, demonstrated performance during SVP, and date their application was officially received by the NTID Department of Career Outreach and Admissions.

Students who qualify for a program of study but there is no space in the program may:

- apply to another program of study
- take necessary mathematics, science, and communication courses until space becomes available in the program
- take a leave of absence until space becomes available in the program

Students who do not qualify for a program of study may be required to take a basic skills/preparatory year of study as part of their curriculum.

Costs

The total cost of attending RIT under the sponsorship of NTID includes tuition, room, board, and academic fees. Tuition and fees for students are equal to the average charges for attending federal land grant colleges all over the country. Charges to NTID-sponsored students will be updated every year. The fixed charges for the 1984-85 year follow:

Fixed Charges

	Summer Vestibule Program	Fall	Winter	Spring	Summer
Tuition	\$280	\$ 561	\$ 561	\$ 561	\$ 561
Room	170	380	380	380	380
Board	255	542	542	542	542
Student Fees ¹		86	86	86	86
Residence Hall Fee ²		5	5	5	5
Off-Campus Resident Fee ²		2	2	2	2
Orientation Fee ³		40			
Orientation Room and Board Charge ⁴		58			
	\$705	\$1669-1672	\$1571-1574	\$1571-1574	\$1571-1574

Required laboratory fees and books and supplies will have an impact on these figures and are outlined on the following pages.

¹The student fees are required of all full-time students.

The fees include: Student Health, Student Activities, Athletic, College Union, and NTID Activities fee.

²Students living in the Institute Residence Halls will be charged a \$5 fee; all other students will be charged a \$2 off-campus resident fee.

³Charge to cover the cost of the Fall Orientation Program for freshmen and new students.

⁴Charge to cover the cost of the four-day orientation stay that precedes fall quarter registration for freshmen and new students.

The standard academic year includes the fall, winter, and spring quarters. New students accepted to the Summer Vestibule Program will be charged according to the prorated fee schedule indicated above.

Students on co-op are not charged tuition or fees for that particular quarter, and will only be charged room and board and residence hall fees if they live on campus while they work.

A student accident and sickness insurance plan is underwritten directly by the federal government.

Incidental personal expenses for students average \$80-90 per month. This accounts for such things as local transportation, laundry and dry cleaning, toiletries, entertainment, and hearing aid batteries.

Laboratory Fees

(per quarter)

Business Careers

Applied Accounting	\$ 15
Business Occupations	15
Data Processing	20
Office Practice and Procedures	25

Engineering Technologies Careers

Architectural Technology*	35-65
Civil Technology*	35-65
Electromechanical Technology	55
Engineering General	20
Industrial Drafting	35
Manufacturing Processes	65

Applied Science/Allied Health Professions

Applied Science/Allied Health General	20
Medical Laboratory Technology	35
Pre-Medical Laboratory Technology	30
Medical Record Technology	35
Pre-Medical Record Technology	30
Optical Finishing Technology	30
Pre-Optical Finishing Technology	25
Mathematics Learning Center	5
Physics Learning Center	10

Visual Communication Careers

Applied Art	45
Applied Photography	50
Media Production Technology	75
Printing Production Technology	100

*\$35 for first-year students; \$65 for second and third-year students

Estimated Cost of Books and Supplies

The cost of books and supplies is the responsibility of the student. Estimated costs for normal progress in individual programs of study during the 1984-85 year are listed below. Because of the increasing costs of materials, students will find that books and supplies cost more than shown here for each of the colleges at RIT.

Summer Vestibule Program	\$	25
Communication Courses		150
Applied Science/Allied Health Professions (all majors)		175
Business Careers (all majors)		450
Computer Careers		375
Engineering Technologies Careers (all majors)		400
Visual Communication Careers		
Applied Art		450
Applied Photography		600
Media Production Technology		600
Printing Production Technology		150
College of Applied Science and Technology (all majors)		400
College of Business (all majors)		450
College of Engineering (all majors)		400
College of Fine and Applied Arts (all majors)		1,600-2,200
College of Graphic Arts and Photography School of Printing		500
School of Photographic Arts and Sciences (Film and Television, Illustration majors)		1,600
College of Liberal Arts (all majors)		400
College of Science (all majors)		400

Vocational Rehabilitation

1. Authorizations for Vocational Rehabilitation (VR) support **must** be on file with RIT's VR billing coordinator for NTID before registration. If the VR billing coordinator for NTID has not received authorization before registration, the student must either:

- obtain a letter of commitment from his/her VR counselor and present it to the VR billing coordinator or
- be prepared to pay for the charges in question. If any authorization is received after the student has personally paid for these charges, a refund will be made to the student.

2. All uncovered charges (charges not expected to be paid by VR) must be paid by the student by the quarterly due date.

3. VR counselors should specify each charge they are assuming on their authorizations.

4. Clarification regarding VR authorizations and/or billing procedures should be addressed to:

Rochester Institute of Technology

VR Billing Coordinator for NTID
Bursar's Office
One Lomb Memorial Drive
Post Office Box 9887
Rochester, New York 14623

(716) 475-2080 (Voice)
475-2960 (TDD)



How To Pay

Fixed Charges

The Bursar's Office of RIT maintains student accounts and prepares quarterly bills of fixed charges. The bursar may allow or disallow any student's registration. Registration is based upon payment or non-payment of quarterly bills by due dates set by the bursar.

Estimated Quarterly Bill

Students who are sponsored by NTID at RIT receive the Estimated Quarterly Billing Racket approximately three weeks before the due date for the fall, winter, spring, and summer quarters. Students accepted to the Summer Vestibule Program will **not** receive an estimated bill. They should send payment for tuition, room, and board directly to the Bursar's Office. The bursar also will be present at SVP registration to accept payments at that time. Checks should be made payable to Rochester Institute of Technology.

Deferred Payment Plan

Some students are not able to pay the total amount due by the due date. Therefore, RIT has made arrangements for deferred payment through a local bank. Students may defer no more than 50 percent of their anticipated balance unless they have received the required authorizations from Vocational Rehabilitation as noted below. For further information, call the RIT Bursar's Office and ask for the VR Billing Coordinator for NTID.

Books and Supplies

Books and supplies are available at the RIT Bookstore. Students without Vocational Rehabilitation (VR) financial aid for course-related materials pay on a cash-only basis at the RIT Bookstore. They should use the cash checkout line. Students may use Visa and Master Charge cards.

Students with Vocational Rehabilitation (VR) or other financial aid for course-related materials use the Business Office counter in the RIT Bookstore. A Bookstore staff member will fill out an itemized purchase order.

Conditions for using itemized purchase order forms follow:

Purchases may be made up to the amount authorized per quarter or per year. Amounts in excess of authorization are cash-only purchases and are the responsibility of the student.

The authorization must be on record with the RIT Bookstore. If an authorization is forthcoming but not on record, the materials will be itemized, but the purchase is by cash only and the responsibility of the student. The student will be reimbursed upon receipt of VR authorizations by the Bookstore.

RIT Bookstore Recommendations Concerning Vocational Rehabilitation

To the student:

1. Be sure to tell your VR counselor to send authorization at least two weeks before the beginning of each quarter or year. Authorization should be sent directly to:

RIT Bookstore
One Lomb Memorial Drive
Post Office Box 9887
Rochester, New York 14623

2. Provide your VR counselor with the starting dates for each quarter.

3. Know how much money your VR counselor is authorizing. Purchases for more than the amount of the authorization must be paid in cash.

4. Tell your VR counselor that books and supplies must be authorized on a separate voucher. They should **not** be included on vouchers authorizing tuition, fees, etc.

5. If an authorization for books and supplies has not arrived by the start of classes of a given quarter, students should pay cash, and will be reimbursed by the Bookstore upon receipt of VR authorization.

To the VR Counselor:

1. Send authorization at least two weeks prior to the beginning of each quarter. Accounts will not be opened until authorizations are received.

2. If your client is attending the Summer Vestibule Program, his/her program of study will not be known until mid-August. Therefore, it is suggested that you authorize \$150 for books and supplies for the fall quarter to enable the Bookstore to open an account in time for your client's use during fall quarter. After your client's program of study is known, you may submit an "Adjusted Authorization" to the Bookstore.

3- Because per-quarter costs vary greatly (fall quarter usually is the highest), it is suggested that authorizations be made for the year, rather than on a per-quarter basis.

4. Authorizations for books and supplies for NTID-sponsored students at RIT must be sent directly to:

RIT Bookstore
One Lomb Memorial Drive
Post Office Box 9887
Rochester, New York 14623

(716) 475-2501

5. The Bookstore will send you an invoice for your client at the end of every quarter. You will receive signed receipts with the invoice to support the amount claimed. If your state requires special billed forms or vouchers, please include an ample supply with your authorization.

6. If a billing period falls within your fiscal year end, please indicate this on the authorization. The Bookstore is more than willing to meet this need if it has sufficient notification.

Financial Aid

There are a variety of grant, loan, and other aid programs available to help students pay for their college education. The best way to find out about them is to check with the RIT Student Financial Aid Office.

The main objective of the Student Financial Aid Office is to help students and their parents plan for and meet the costs of attending NTID.

While students and parents are expected to contribute to college expenses as their resources permit, RIT's Student Financial Aid Office can be of special assistance to students whose resources are insufficient to meet the costs of attending NTID.

There also is a full range of benefits available to eligible veterans and dependents of veterans attending NTID.

RIT's cooperative education programs offer participating students an opportunity to make a significant contribution to their total college expenses in addition to the valuable experience gained on the job.

Additionally, through the Central Placement Office, there are many part-time positions available to help defray expenses.

Inquiries for all types of financial assistance should be directed to:

Rochester Institute of Technology

Student Financial Aid Office
RIT/NTID Financial Aid Counselor
One Lomb Memorial Drive
Post Office Box 9887
Rochester, New York 14623

(716) 475-2186 (Voice)
475-6909 (TDD)

NTID Grant-In-Aid

Federal Grant-In-Aid Funds are the primary source of financial aid available for NTID students who do not have adequate financial resources from their parental or personal contribution and assistance from outside agencies.

Grant-In-Aid is awarded on the basis of financial need for one year only. Students must re-apply every year by completing the Financial Aid Form (FAF), and the NTID "In-House" application. The minimum amount awarded is \$100, and the maximum amount is determined by the student's financial need.

Non-Residents

There are no additional charges or fees for NTID students coming from states other than New York.

To Apply for Aid

Students are encouraged to apply for financial aid. Students and their families should not try to decide, by themselves, if they will qualify for aid. It is always best to let the Student Financial Aid Office and other agencies to which they have applied make the decision.

Denial of aid from one or more sources does **not** necessarily mean that students will be denied aid by all of the sources to which they have applied.

To be considered for financial aid, students must apply for it. To actually receive financial aid, students must be matriculated.

Although applications for financial aid are not processed until students have been accepted, students should **not** wait until receiving notification of acceptance to file for financial aid. Students should apply for financial aid at the same time they are applying to NTID. Students are urged to file financial aid applications between January 1 and March 1 of the year prior to entrance.

To be considered for financial aid offered through NTID, students must complete both the Financial Aid Form (FAF) and the NTID "In-House" financial aid application.

The FAF may be obtained from local high school guidance offices, local college financial aid offices, RIT's Student Financial Aid Office, or by writing directly to the College Scholarship Service, Post Office Box 176, Princeton, New Jersey 08540.

Once the FAF has been completed, it should be mailed to the College Scholarship Service, either in Princeton, New Jersey, or Berkeley, California, depending on the student's home state of residence. The complete address for each location of the College Scholarship Service is given on the front of the application booklet.

The NTID "In-House" financial aid application may be obtained from RIT's Student Financial Aid Office. Students receive this form in their application packet.



This form should be returned directly to Rochester Institute of Technology, Student Financial Aid Office, One Lomb Memorial Drive, Post Office Box 9887, Rochester, New York 14623.

Freshmen and transfer students may expect notification of financial aid awards during April or May; and returning upper-class students may expect award notification during June or July.

NTID awards financial assistance on the basis of need. Financial need is defined as the difference between the cost of education and the amount of money that the student has available from outside resources. The cost of education includes tuition, fees, room, board, books and supplies, personal expenses, and transportation. (Transportation expenses are based on the student's home state of residence.) Outside resources include the expected parental contribution based on income and assets, student's assets, support from Vocational Rehabilitation (VR), SSI/SSD benefits, outside grants, and scholarships.

NTID urges students to pursue all available sources of financial aid before deciding to borrow through the Guaranteed Student Loan Program.

Selection and Eligibility

To be awarded financial aid, an individual must be admitted as a matriculated student. NTID makes every effort to continue financial assistance to students each year provided they remain in good academic standing and maintain satisfactory progress, file the required applications by the recommended deadlines, and demonstrate continued financial need.

A student is in good academic standing and is maintaining satisfactory progress if he/she has been accepted into a program of study (matriculated) and currently is enrolled in this institution. Awards are based primarily on financial need and the availability of funds.

Responsibilities

Recipients of financial aid from NTID are responsible for reporting any significant changes in their financial situation during the school year to the Director of Student Financial Aid, who will review and may revise the applicant's financial aid accordingly. Significant changes would include increases or decreases in VR support, SSI/SSD benefits, or receipt of an outside scholarship.

Standards of Satisfactory Progress for the Purpose of Determining Eligibility for New York State Student Aid

Before being certified for payment each quarter, students must have accrued a minimum number of credits with a specified cumulative grade point average, based on the degree level they are pursuing.

Certificate and Diploma Award—Quarter System

Before being certified for this payment	1st	2nd	3rd	4th	5th	6th
A student must have accrued at least this many credits	0	3	9	20	32	44
With at least this cumulative grade point average	0	.50	.75	1.00	1.20	1.30

Associate Degree—Quarter System

Before being certified for this payment	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
A student must have accrued at least this many credits	0	3	9	20	32	44	56	68	80
With at least this cumulative grade point average	0	.50	.75	1.00	1.20	1.30	1.40	1.60	1.80

Baccalaureate Degree—Quarter System

Before being certified for this payment	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th*	14th*	15th*
A student must have accrued at least this many credits	0	3	9	20	32	44	56	68	80	92	104	116	132	148	164
With at least this cumulative grade point average	0	.50	.75	1.00	1.20	1.30	1.40	1.50	1.60	1.65	1.70	1.75	1.80	1.85	1.90

*Only students in the HEOP program at RIT are eligible for more than 12 quarters of undergraduate awards.

Financial Aid at a Glance

Federally Administered

Scholarship/Grant	Eligibility	Amount	Where to Apply
SSI/SSD	Determined by student's income, resources, and degree of disability	Amounts vary.	Social Security Administration
Pell Grant (formerly Basic Educational Opportunity Grant)	Undergraduate students who are pursuing their first bachelor's degree, in financial need, and attending postsecondary institutions	\$250 to \$1,900 per year	File Financial Aid Form requesting submission to Pell Grant or file separate Pell Grant application.
Veteran Benefits	Veterans	Amounts per month vary upon fall or part-time status and number of dependents.	RIT Veteran Affairs Office
War Orphans Educational Assistance (Federal)	Children of certain deceased or disabled veterans	Up to \$220 per month	Veterans Administration

State Administered

Scholarship/Grant	Eligibility	Amount	Where to Apply
Vocational Rehabilitation	Determined by student's and parent's income, resources, and student's disability	Amounts vary.	Local Vocational Rehabilitation Office
(New York State)	New York State residents who show ability to pursue full-time programs	\$300 to \$2,700 per year	N.Y.S. Higher Education Services Corporation, 99 Washington Avenue, Albany, New York 12255
Regents College Scholarship (New York State)	New York State residents who plan to attend college and qualify through an examination in the senior year of high school	\$250 per year; maximum of \$1,000 for 4 years	N.Y.S. Higher Education Services Corporation, 99 Washington Avenue, Albany, New York 12255
Regents Award for Children of Deceased and Disabled Veterans (New York State)	New York State residents who are children of certain deceased and disabled veterans	\$450 per year	N.Y.S. Higher Education Services Corporation, 99 Washington Avenue, Albany, New York 12255
Other State Grants	Eligibility varies.	Amounts vary.	Consult state's education department.

Student Loans

Guaranteed Student Loan	Students enrolled in full and part-time degree programs	Undergraduates, up to \$2,500 per year; graduates, up to \$5,000 per year for master's degree students	Contact banks or other lending institutions in state of residency.
Parent Loan for Undergraduate Students (PLUS)	Parents of undergraduate students enrolled in full and part-time degree programs	\$3,000 per year per dependent student	Contact banks or other lending institutions in state of residency.
RIT Supplemental Loan	Parents of undergraduate students enrolled full time at RIT/NTID	\$1,000 to \$5,000 per year per undergraduate student	Contact RIT/NTID Financial Aid Office

Institutionally Administered

Scholarship/Grant	Eligibility	Amount	Where to Apply
NTID Grant-In-Aid (Federally funded)	College students who meet federally established need requirements) due to insufficient support from outside sources	Minimum award is \$100; maximum award varies.	File the Financial Aid Form and the NTID "In-House" Application.
Supplemental Educational Opportunity Grant (Federal)	College students of academic promise who are accepted for college study and who are in financial need	\$200 to \$2,000 per year	Through RIT by use of the Financial Aid Form (FAF). File FAF between January 1 and March 1 (prior to next year of attendance).
National Direct Student Loan (Federal)	College students who meet financial need requirements established by federal government	Up to \$3,000 for first two years of undergraduate study. Maximum of \$6,000 for 4 and 5 years of undergraduate study; \$6,000 for graduate study	Through RIT by use of the Financial Aid Form (FAF). File the FAF between January 1 and March 1.
College Work-Study Program (Federal)	College students in full and part-time degree programs who meet financial need requirements established by the federal government	Varies, depending on hours and wage rate.	Through RIT by use of the Financial Aid Form and through the Student Employment Center
Other college part-time work	Considerable variation in kinds of positions, hours, and wages		Consult other RIT publications, Student Employment Office, RIT Central Placement Office.
ROTC	Students enrolling in ROTC and who are academically qualified	Tuition, fees, books, and monthly stipend	RIT Department of Military Science



CAREER DEVELOPMENT

Summer Vestibule Program

The Summer Vestibule Program (SVP) is an orientation program as well as a vital learning experience for new NTID students.

During SVP, students learn about the various programs offered by NTID while faculty and staff members learn about students' skills, abilities, and motivation. Through this mutual process, students gain more information about themselves, to assist them in selecting an appropriate major in the fall.

SVP is the stepping stone for students to engage in the complex tasks of career awareness, decision making, adjustment to college life, and the assessment of academic skills and competencies.

An Admissions Committee reviews each student's credentials to determine if the Summer Vestibule Program is appropriate. While most students do attend SVP, there are some who are not required to attend based on clear career goals, previous college experience, and/or past academic performance. SVP students participate in various program sampling, career planning seminars, math and communication evaluation/assessment, General Education seminars, and other academic and social activities.

In Program Sampling, students get hands-on experience in several majors. Sampling includes classroom and lab projects, field trips to local industries, and interaction with instructors and alumni. Sampling experiences provide information about majors and job opportunities. The sampling faculty members also evaluate the SVP students' interests and their abilities to succeed in the programs.

In Career Planning seminars, students learn about decision making. Career development counselors help students relate their interests, abilities, and values to academic programs and occupations. Students combine sampling, test, and personal information to make career decisions and course selections for the fall quarter.

The Math and Communication evaluation is a series of tests that are essential to the student's placement and selection of a major.

General Education seminars focus on important issues in college life and assist students in adjusting to a new and unique environment. There also are educational programs in the residential halls, such as a self-governance program, discussion groups, and special floor activities. Students learn about their responsibilities as adults in a residential college setting and help establish the rules that will govern their floors during SVP.

Students must satisfy the requirements of SVP before they can apply and be offered acceptance to a major at the end of SVP. To do this, students must attend all classes, take all tests, follow rules and policies, and show responsible, mature behavior. While most students do complete SVP successfully, only motivated, serious SVP students will be allowed to continue at RIT in the fall quarter. SVP is hard work as well as a chance to grow and be challenged both personally and academically. In addition to this, SVP is fun. There are intramural sports, drama, camping, tennis, student get-togethers, dances, picnics, swimming, captioned movies, and cultural activities.

Career Exploration

Some students are not ready to select a program of study (major) following the Summer Vestibule Program (SVP). These undecided students may participate in Career Exploration.

Career Exploration allows students to do intensive career searches and to understand themselves better. This is done through career and personal counseling, decision-making classes, field trips, program sampling, and interpretation of interest, aptitude, and achievement testing.

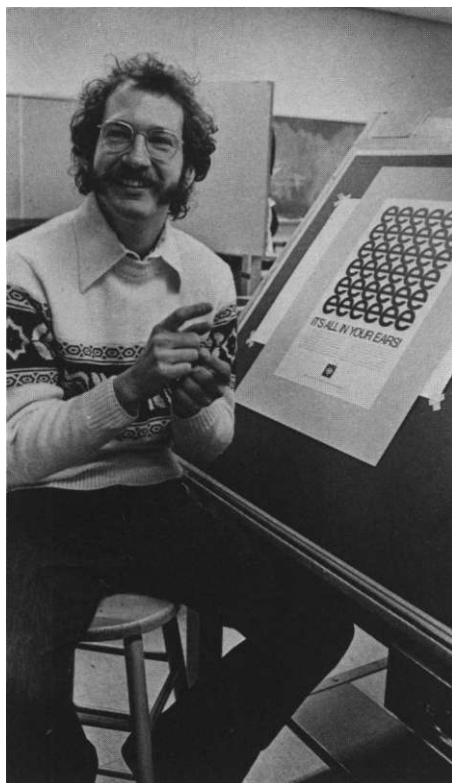
Career Exploration students take courses in mathematics, English, general education, liberal arts, physical education, and communication. Students also participate in sampling courses and experiences, and may take introductory courses in specific technical departments. All Career Exploration students participate in extracurricular and various college-oriented activities.

Students who choose Career Exploration are allowed one to three quarters to find a major. Students must write a career exploration plan explaining what they will do each quarter.



The Undergraduate Programs of RIT Offered by NTID

Students can choose from many programs available in each of the nine colleges of RIT. The following table shows all academic programs designed for deaf RIT students that are officially registered with the New York State Department of Education, and their Higher Education General Information Survey (HEGIS) codes.



	Degree and HEGIS Code		
	Certificate	Diploma	AA.S.
School of Business Careers			
Applied Accounting		5002	5002
Business Occupations	5005		
Data Processing	5101	5101	5101
Office Practice and Procedures		5005	5005
School of Science and Engineering Careers			
Architectural Drafting		5304	
Architectural Technology			5304
Civil Technology			5309
Electromechanical Technology			5311
Histologic Assistant	5205		
Industrial Drafting		5303	
Industrial Drafting Technology			5303
Manufacturing Processes		5312	
Medical Laboratory Technology			5205
Medical Record Technology			5213
Optical Finishing Technology	5212	5212	5212
School of Visual Communication Careers			
Applied Art	5012	5012	5012
Applied Photography	5007	5007	5007
Media Production Technology		5007	5007
Printing Production Technology	5009	5009	5009
Support Services for the Hearing Impaired			
Interpreting for the Hearing Impaired			5506

A.S. AA.S. B.F.A. B.S. B. Tech. M.B.A. M.F.A. M.E. M.S. M.S.T.

College of Applied Science and Technology

Audiovisual Communications				•						
Career and Human Resource Development									•	
Computer Information Systems	•				•					
Computer Science	•		•						•	
Computer Systems Management									•	
Computer Technology	•			•						
Civil Engineering Technology—Construction					•					
Civil Engineering Technology—Environmental					•					
Electrical Engineering Technology					•					
Energy Engineering Technology					•					
Food Service Administration	•		•							
General Dietetics and Nutritional Care	•		•							
Information Science									•	
Instructional Technology									•	
Manufacturing Engineering Technology					•					
Mechanical Engineering Technology					•					
Packaging Science			•						•	

College of Business

Accounting	•		•						•	
Business Administration	•		•		•					
Business Administration—Accounting					•					
Business Administration—Information Systems			•							
Human Services Management									•	
Photographic Marketing Management	•		•							
Retailing	•		•							

College of Continuing Education*

College of Engineering

Computer Engineering				•						
Electrical Engineering				•					•	
Industrial Engineering				•						
Mechanical Engineering				•					•	
Microelectronic Engineering				•						
Master of Engineering (in Electrical, Mechanical, or Industrial Engineering)									•	

* For information on offerings of the College of Continuing Education, please write to that college for an Official Bulletin or catalog.

A.S. A.A.S. B.F.A. B.S. B.Tech. M.B.A. M.F.A. M.E. M.S. M.S.T.

College of Fine and Applied Arts

	A.S.	A.A.S.	B.F.A.	B.S.	B.Tech.	M.B.A.	M.F.A.	M.E.	M.S.	M.S.T.
Art Education										*
Ceramics and Ceramic Sculpture		*	*				*			*
Computer Graphics Design							*			
Double Craft Major				*						
Fine Arts—Medical Illustration				*			*			
Fine Arts—Painting		*	*				*			*
Fine Arts—Print making		*	*				*			*
Glass		*	*				*			*
Graphic Design		*	*				*			*
Industrial and Interior Design		*	*				*			*
Metalcrafts and Jewelry		*	*				*			*
Packaging Science—Design				*						
Weaving and Textile Design		*	*							
Woodworking and Furniture Design		*	*				*			*

College of Graphic Arts and Photography

Biomedical Photographic Communications		*		*						
Film and Television		*		*						
Imaging and Photographic Science		*		*					*	
Newspaper Production Management				*						
Photographic Processing and Finishing Management		*		*						
Photography							*			
Professional Photographic Illustration		*		*						
Printing		*		*						
Printing and Applied Computer Science				*						
Printing Education									*	*
Printing Systems Management				*						
Printing Technology									*	
Technical Photography		*		*						

College of Liberal Arts

Criminal Justice				*						
Social Vferk				*						

College of Science

Applied Mathematics		*		*						
Applied Statistics				*						
Biology		*		*						
Biomedical Computing				*						
Biotechnology				*						
Chemistry		*		*					*	
Clinical Chemistry									*	
Computational Mathematics				*						
Diagnostic Medical Sonography				*						
Materials Science and Engineering									*	
Medical Technology				*						
Nuclear Medicine Technology				*						
Physics		*		*						





ACADEMIC PROGRAMS

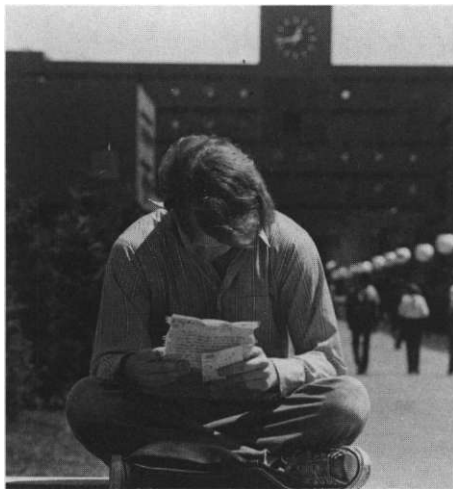
Career preparation means that all aspects of an education are designed to prepare students for successful careers. NTID at RIT is a comprehensive institution of higher education offering career preparation in three related areas:

Career Development Programs

Career Development Programs are designed to meet the increasing demand for technicians, semi-professionals, and other persons for employment in industry, business, government, and the professions. Students can prepare for careers in business, computer science, engineering, health sciences, fine and applied art, printing, photography, media production, and public service.

General Education

General Education helps students learn more about themselves and the world around them through courses in language, literature, humanities, and natural and social sciences. All curricula include appropriate general education courses. General education also includes extracurricular activities such as residence programs, community service, outdoor education, and student leadership.



Communication

Communication experiences for NTID students develop and refine their skills in reading, writing, listening, speaking, speechreading, and manual/simultaneous communication.

Technical Education

Preparing for a technical career requires specialized training called technical education. Technical education involves study and other training that teaches special skills. These skills prepare students to become specialists in areas such as business, applied art, engineering, photography, and medical technology

People with a technical education work in many places, including business and industry, government, education, or hospitals and labs.

Technical education at NTID is **not** a vocational or trade school education. Technical careers require advanced education and special knowledge. The technical programs at NTID lead to the following degree levels:

Certificate

This level includes planned programs of technical instruction of usually 45-60 credit hours. These programs allow students to acquire a minimum level of technical skill before entering the work force. In addition to technical courses, students are required to complete specified credit hours of General Education and Communication courses.

Diploma

This level includes planned programs of technical instruction of 90-135 credit hours. This provides students with a maximal level of technical competency for entry-level positions and minimal attainment in the field of General Education. In addition to 60-100 credit hours of technical courses, students must complete specified credit hours of General Education and Communication courses.

Associate in Applied Science Degree

This level includes planned programs that permit students, upon completion, to enter their career directly or to transfer to upper division programs in a college of their choice. This program level provides from 115-180 credit hours of instruction. In addition to completing all technical courses satisfactorily, students must complete 20 credit hours of Liberal Arts courses, nine credit hours of required General Education courses, and approximately 20 credit hours of Communication courses.

Pre-Technical Programs

Students admitted to RIT through NTID come from a variety of educational backgrounds. Sometimes, students show talent and interest in a technical level program but do not have all the necessary skills to begin the program of study. Therefore, some NTID technical departments have established pre-technical programs.

Pre-technical programs are designed to help students build their basic skills in math, science, English, and general education before starting their technical courses. Pre-technical programs are different in each career area. A program may take from one to three quarters to complete. It may have a fixed curriculum or it may be designed to meet the needs of individual students.

Not all technical programs have pre-technical programs. Some departments build basic math, science, and technical skills into the regular technical curriculum.

Course Prerequisites

A prerequisite is a requirement—or its equivalent—that must be met before a student is admitted into a course. A prerequisite may be a specific high school course, another NTID course, or a demonstrated proficiency. Prerequisites may be waived on the basis of proficiency testing and/or the recommendation of an appropriate faculty member or department chairperson.

All students at the Institute are expected to demonstrate proficiency in basic communication, mathematics, and reading skills necessary to succeed in college-level courses. During preregistration counseling sessions, these skills may be evaluated by considering such things as previous educational records and results of assessment testing that may be administered by the Institute.

Courses must be taken in sequence according to prerequisites; courses taken out of sequence must be approved by the appropriate department chairperson.

Cross Registration

Qualified deaf students may take selected courses or enroll in programs offered by those colleges of RIT other than NTID. These students are called cross registered.

There are several reasons why students may want to cross register. They may want to take selected courses in another RIT college. They may wish to complete a program of study at NTID and then continue their education in another RIT college. They may want to enter a program in another RIT college after they finish high school or transfer directly from another college elsewhere into an RIT program.

To enroll in a program of study in another RIT college, a student meets with professors of the specific department of interest and a member of the NTID educational support team assigned to the college of his/her choice. The final decision on admission to a program in another college of RIT is made by personnel in the college in which the student seeks enrollment.

NTID students cross registered in courses in another RIT college have available to them the support services of interpreters, tutors, notetakers, speech and hearing specialists, and counselors.

Cooperative Work Experience

Cooperative work experience (co-op) is an important component of NTID students' career development. Almost every program of study requires at least one co-op experience before students can be certified for graduation. Co-op jobs range from one quarter (10 weeks) to five quarters (50 weeks) of actual job experience, depending on the requirements of the specific program. Most co-ops occur during summer quarter.

Co-op gives students the opportunity to apply classroom learning to actual job activities while testing and developing their technical, personal/social, and communication skills. Co-op also gives students a better understanding of job demands and the world of work. These experiences are beneficial to students as they make the transition from school to work after graduation. NTID students who have participated in cooperative work experiences often report that co-op is one of the more rewarding and valuable parts of their education at RIT.

Independent Study Courses

Occasionally, a student is interested in an area or topic within a program option that is not required within that option. The purpose of Independent Study courses at NTID is to allow students to study in these areas. The decision to take an Independent Study course must be made jointly by the student and the instructor. By working together, an identifiable area of study may be agreed upon for which the student may receive credit toward the degree or certificate. The Independent Study course must be approved by the faculty member and department chairperson.

Special Topics Courses

Students also may explore topics of special interest in areas not offered through existing courses. Departments usually offer a special topics course on an experimental basis to see how relevant, appropriate, beneficial, or feasible such a course might be. One to five quarter credit hours may be assigned for a special topics course.



Business Careers

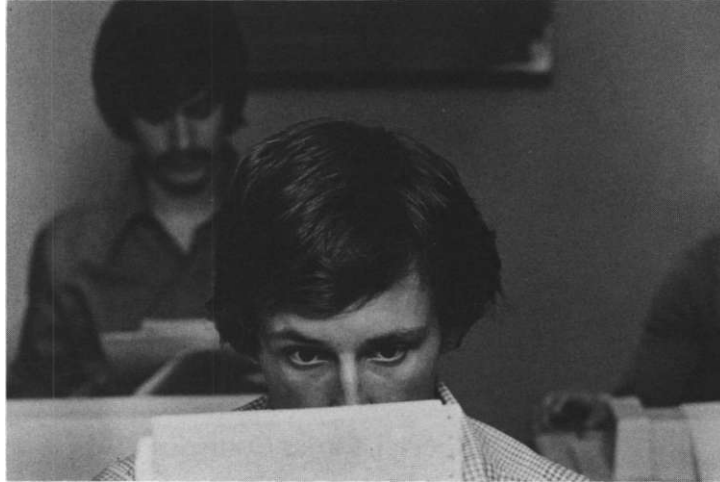
Opportunities for employment in business and industry increase every day. Business Careers programs respond to the need in industry for people skilled in operating office equipment, keeping financial records, performing clerical duties, and using computers.

Students may choose a certificate program in Business Occupations, and diploma and AAS. degree programs in Office Practice and Procedures and in Applied Accounting.

Other RIT Programs

Other business programs are available in the College of Applied Science and Technology and the College of Business. The Business/Computer Science Support Department assists students cross registered in these colleges.

Pre-Technical Program: None



Business Occupations

Certificate Program

The certificate program in Business Occupations combines basic business office skills with an introduction to data entry concepts.

On-the-job Responsibilities

Type business communications, operate electronic calculators, maintain files, keep basic payroll records, and enter data on computer terminals.

Place of Employment

Business, industry, government, and educational institutions

Graduates Qualify for These Positions

General office clerk, file clerk, recordkeeping clerk, data-entry clerk, and payroll records clerk

Prerequisite: None

Approximate Time: 6 quarters

C.O.R.E. Certificate Program—Business Occupations—NBTP (0804)

Typical Course Sequence

Fall Term

First Year

		Cr. Hrs.
0804-111	Beginning Typing I	2
0804-211	Business Procedures I	3
0817-105	Office Procedures Math	3
0847-101	Job Search Process	1
	Communication	2
	English	4
		15

Second Year

0804-221	Advanced Typing I	3
0847-147	Law and Society	2
	General Education	
	Course Elective* or	
	Business Elective**	2
	Communication	2
	English	4
		13

Winter Term

		Cr. Hrs.
0804-112	Beginning Typing II	2
0804-212	Business Procedures II	3
0804-101	Orientation to Business	3
0804-100	Dimensions of	
	College Life	2
	Communication	2
	English	4
		16

Summer

0804-299 Co-op Work Experience

Spring Term

		Cr. Hrs.
0804-113	Beginning Typing III	2
0804-213	Business Procedures III	3
0804-110	Business English	3
	Communication	2
	English	4
	Physical Education	0
		14

*Recommended General Education Courses for Business Majors

0847-106	Personal Finance	2
0847-110	Personal Development	2
0847-126	Leadership Development	2
0847-129	Assertiveness Training	2
0847-162	The World of work	1
0847-163	Interpersonal Relationships on the Job	2

*Recommended Business Electives

0804-284	Fundamentals of Management	3
0804-286	Fundamentals of Marketing	3
0801-201	General Accounting	3

Office Practice and Procedures

The Office Practice and Procedures Program offers a diploma and an A.A.S. degree. This program provides students with a background in typewriting and general office skills and procedures, including an introduction to word processing operations and general accounting activities. Special emphasis is placed on the development of word processing skills at the associate degree level.

On-the-job Responsibilities

Type business communications; operate word processing equipment; create, update, and maintain records manually and electronically; and perform other office duties.

Places of Employment

Business, industry, schools, and government

Diploma Program

Graduates Qualify for These Positions

Clerk/typist, typist, correspondence typist, accounts receivable/payable clerk, general office clerk, file clerk, recordkeeping clerk, data-entry clerk, and payroll records clerk

Prerequisites

- Successful completion of certificate in Business Occupations
- Grade of C or better in all Typing courses

Approximate Time: 7 quarters



Office Practice and Procedures: Diploma—NBTP (0804)

Typical Course Sequence

Fall Term

First Year

		Cr. Hrs.
0804-111	Beginning Typing I	2
0804-211	Business Procedures I	3
0817-105	Office Procedures Math	3
0804-101	Orientation to Business	3
0847-101	Job Search Process	1
	English	4
		16

Winter Term

		Cr. Hrs.
0804-112	Beginning Typing II	2
0804-212	Business Procedures II	3
0817-122	Algebra 1A (optional)	3
0847-100	Dimensions of	
	College Life	2
	Communication	2
	English	4
	Physical Education	0
		16

Spring Term

		Cr. Hrs.
0804-113	Beginning Typing III	2
0804-213	Business Procedures III	3
0804-110	Business English	3
	Communication	2
	English	4
	Physical Education	0
		14

Summer

0804-299 Co-op Vtork Experience

Second Year

0804-221	Advanced Typing I	3
0804-284	Fundamentals of	
	Management	3
0801-201	General Accounting I	3
	Communication	2
	English	4
		15

0804-222	Advanced Typing II	3
0801-202	General Accounting II	3
0802-210	Data Processing for	
	Business Occupations	3
	Communication	2
	English	4
	Physical Education	0
		15

0804-286	Fundamentals of	
	Marketing	3
	or	
0847-147	Law and Society	2
0804-301	Word Processing I	4
0804-230	Office Practice and	
	Procedures Seminar	2
0847-102	Life After College	1
	General Education	
	Course Elective	2
	Communication	2
	English Elective	4

Office Practice and Procedures

AAS. Degree Program

Graduates Qualify for These Positions

Word processing technician, clerk/typist, typist, correspondence typist, accounts receivable/payable clerk, general office clerk, file clerk, recordkeeping clerk, data-entry clerk, and payroll records clerk.

Prerequisites

- Successful completion of diploma in Office Practice and Procedures
- Grade of C or better in all Typing and Word Processing courses.

Approximate Time: 11 quarters



Office Practice and Procedures: AA.S. Degree— NBTP (0804)

Typical Course Sequence

Fall Term		Winter Term		Spring Term		
	Cr. Hrs.		Cr. Hrs.		Cr. Hrs.	
First Year						
0804-111	Beginning Typing I	2	0804-112	Beginning Typing II	2	
0804-211	Business Procedures I	3	0804-212	Business Procedures II	3	
0817-105	Office Procedures Math	3	0817-122	Algebra IA	3	
0847-101	Job Search Process	1	0847-100	Dimensions of College Life	2	
0804-101	Orientation to Business English	4		Communication	2	
		16		English	4	
				Physical Education	0	
					17	
					16	
Summer						
			0804-299	Co-op Work Experience		
Second Year						
0804-221	Advanced Typing I	3	0804-222	Advanced Typing II	3	
0804-284	Fundamentals of Management	3	0801-202	General Accounting II	3	
0801-201	General Accounting I	3	0802-210	Data Processing for Business Occupations	3	
	Communication	2		Communication	2	
	English	4		English	4	
		15		Physical Education	0	
					15	
Summer						
			0804-299	Co-op Work Experience		
Third Year						
0804-302	Word Processing II	4	0804-303	Word Processing III	4	
0847-147	Law and Society	2		Liberal Arts	4	
	Liberal Arts	4		Liberal Arts	4	
	General Education				12	
	Course Elective	2				
		12				
				0804-304	Word Processing IV	4
				0804-399	Independent Study	
					Office Practice and Procedures	2
				0847-102	Life After College	1
					Liberal Arts	4
					General Education	
					Course Elective	2
						13



Applied Accounting

The Applied Accounting Program offers a diploma and an AA.S. degree. This program provides graduates with a basic knowledge of general and cost accounting systems. Through job experience projects, students become familiar with data-entry techniques, computer applications, and payroll procedures.

On-the-job Responsibilities

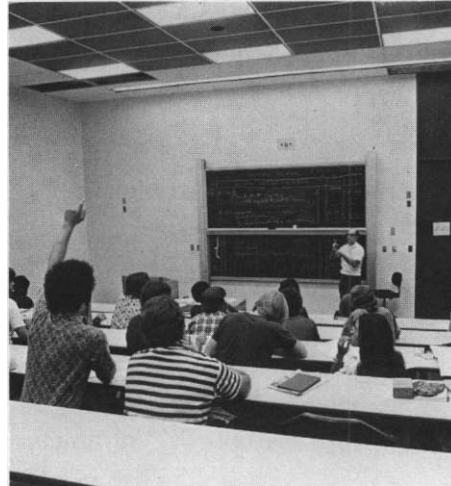
Prepare financial records and reports, gather and analyze information, and verify business records.

Places of Employment

Business, industry, and government

Other RIT Programs

AAS., B.S., and M.S. degrees in accounting are available through cross registration into RIT's College of Business.



Diploma Program

Graduates Qualify for These Positions

Accounts payable clerk, accounts receivable clerk, payroll clerk, general office clerk, file clerk, recordkeeping clerk, and data-entry clerk

Prerequisites

- Successful completion of certificate in Business Occupations
- Grade of C or better in General Accounting I and General Accounting II

Approximate Time: 7 quarters

Applied Accounting: Diploma—NBTA (0801)

Typical Course Sequence

Fall Term

First Year

		Cr. Hrs.
0804-111	Beginning Typing I	2
0804-211	Business Procedures I	3
0817-105	Office Procedures Math	3
0804-101	Orientation to Business	3
0847-101	Job Search Process	1
	English	4
		16

Winter Term

		Cr. Hrs.
0804-112	Beginning Typing II	2
0804-212	Business Procedures II	3
0804-110	Business English	3
0847-100	Dimensions of College Life	2
	Communication	2
	English	4
	Physical Education	0
		16

Spring Term

		Cr. Hrs.
0804-113	Beginning Typing III	2
0804-213	Business Procedures III	3
0817-122	Algebra 1A	3
	Communication	2
	English	4
	Physical Education	0
		14

Summer

0801-299 Co-op tek Experience

Second Year

0804-221	Advanced Typing I	3
0804-284	Fundamentals of Management	3
0801-201	General Accounting I	3
0817-123	Algebra IB	3
	Communication	2
	English	4
	Physical Education	0
		18

0801-202	General Accounting II	3
0802-210	Data Processing for Business Occupations (Accounting)	3
	General Education	
	Course Elective	2
	Communication	2
	English	4
		14

0801-251	Applied Accounting I	4
0804-286	Fundamentals of Marketing	3
	or	
0847-147	Law and Society	2
0847-102	Life After College	1
	General Education	
	Course Elective (optional)	2
	Communication	2
	English Elective	J

15-16

Applied Accounting

A.A.S. Degree Program

Graduates Qualify for These Positions

Accounting technician, audit clerk, cost clerk, accounts payable clerk, accounts receivable clerk, payroll clerk, and general accounting clerk

Prerequisites

- Successful completion of diploma in Applied Accounting
- Grade of C or better in all Accounting courses

Approximate Time: 11 quarters

Other RIT Programs in Business Careers

College of Applied Science and Technology

Career and Human Resource Development

This program provides the necessary courses and internship experiences to enable graduates to acquire a well-rounded knowledge of the goals, procedures, and fundamentals of the various career fields, with an emphasis on human resource forecasting. Graduates serve in a variety of positions in human resource development. Degree granted: M.S.

Applied Accounting: A.A.S. Degree—NBTA (0801)

Typical Course Sequence

Fall Term

First Year

		Cr. Hrs.
0804-111	Beginning Typing I	2
0804-211	Business Procedures I	3
0817-105	Office Procedures Math	3
0804-101	Orientation to Business	3
0847-101	Job Search Process	1
	English	4
		16

Second Year

0804-221	Advanced Typing I	3
0804-284	Fundamentals of Management	3
0801-201	General Accounting I	3
0817-123	Algebra IB	3
	Communication	2
	English	4
	Physical Education	0
		18

Third Year

0801-252	Applied Accounting II	4
0817-127	Algebra IIB	3
	Liberal Arts	4
	Liberal Arts	4
		15

College of Business

Accounting

Graduates of the public accounting option meet candidacy requirements for the CPA examination. The College of Business also offers a graduate program leading to the master of business administration with an accounting option. Degrees granted: B.S., M.BA

Business Administration

This program provides business basics in accounting, management, mathematics, economics, computer science, and behavioral science. Undergraduate students may concentrate in accounting, finance, management, marketing, information systems, and personnel/human resources management. A master of business administration program gives students a foundation common to profit and non-profit organizations. Degrees granted: B.S., M.BA, M.S.

Winter Term

		Cr. Hrs.
0804-112	Beginning Typing II	2
0804-212	Business Procedures II	3
0804-110	Business English	3
0847-100	Dimensions of College Life	2
	Communication	2
	English	4
	Physical Education	0
		16

Summer

0801-299 Co-op Vtrbk Experience

0801-202	General Accounting II	3
0802-210	Data Processing for Business Occupations (Accounting)	3
	General Education	
	Course Elective	2
	Communication	2
	English	4
		14

Summer

0801-299 Co-op Work Experience

0801-253	Applied Accounting III	4
0801-231	Economics I	3
0847-147	Law and Society	2
	Liberal Arts	4
		13

Spring Term

		Cr. Hrs.
0804-113	Beginning TVping III	2
0804-213	Business Procedures III	3
0817-122	Algebra IA	3
	Communication	2
	English	4
	Physical Education	0
		14

0801-251	Applied Accounting I	4
0817-126	Algebra IIA	3
0804-286	Fundamentals of Marketing	3
	Liberal Arts	4
	Communication	2
		16

0801-254	Applied Accounting IV	4
0804-291	Applied Accounting Techniques	2
0801-232	Economics II	3
0847-102	Life After College	1
	Liberal Arts	4
	General Education	
	Course Elective	2
		16

Photographic Marketing Management

These programs are designed to provide students with knowledge of the combination of economic, financial, and marketing principles necessary to establish and maintain a photographic wholesale or retail business. Degree granted: B.S.

Retail Management

This program prepares students for seven broad areas within the retail field: merchandising, operations, finance, accounting, information systems, personnel, and marketing. The center for retail management also offers an RIT/FIT joint degree for students interested in the fashion industry. These competencies will help graduates achieve middle and upper-middle management positions after some years of on-the-job experience. Degree granted: B.S.

Computer Careers

Careers in which computers are used are increasing every day. Computers are an important part of business, industry, and other parts of the economy. Computer careers involve operating computers or writing programs that direct the computer to solve a problem.

Students may choose certificate, diploma, and AAS. degree programs in data processing.

Other RIT Programs

Other computer programs are available in the College of Applied Science and Technology. The Business/Computer Science Support Department assists students cross registered in this college.

Data Processing

On-the-job Responsibilities

Certificate and Diploma: Work in the computer operations area controlling computers or in a variety of operations-related support areas.

AAS. Degree: Works as console operator and full computer operator; work as basic entry level programmer trainee. Major concentration is in computer operations.

Places of Employment

Banks, insurance companies, large stores, manufacturing companies, public utilities, government agencies, and other data processing centers.

Pre-Technical Program: None

Department Policy: Students must receive a C or better in all required technical courses. Courses with prerequisites of other technical courses cannot be taken without C grades in the technical prerequisites.

Certificate Program

Graduates Qualify for These Positions

Support areas of computer operations such as data control, librarian functions, or peripheral equipment operator

Suggested Prerequisites

- Algebra IA
- Programmer Aptitude Test score of 45 or better
- Successful completion of a sampling experience in the Data Processing area, either through the Summer Vestibule Program or a departmental sampling program.

Students with less than an English level 3 may have difficulty in this program.

Approximate Time: 5 quarters



Data Processing: Certificate—NBTD (0802)

Typical Course Sequence

Fall Term

First Year

		Cr. Hrs.
0802-100	Introduction to Data Processing	2
0802-157	Beginning Computer Operations	1
0802-158	Laboratory	1
0817-122	Algebra IA	3
0847-101	Job Search Process	1
	Communication	2
	English	4
		14

Second Year

0802-125	Data Processing Technical Communications	2
0802-162	Computer Console Operations	1
0817-104	Business Mathematics	3
	Business Elective	2
	Communication	2
	English	4
	Physical Education	0
		14

Winter Term

		Cr. Hrs.
0802-170	Utilities/JCL for Computers	2
0804-101	Orientation to Business	3
0817-123	Algebra IB	3
0847-100	Dimensions of College Life	2
	English	4
		14

Summer

0802-299	Co-op Work Experience	
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Spring Term

		Cr. Hrs.
0802-101	Introduction to Business Programming	3
0802-161	Business Computers Systems Facilities	2
0802-390	Data Processing Seminar	1
	Communication	2
	English	4
		12

Data Processing

Diploma Program

Graduates Qualify for These Positions

Computer operator trainee, peripheral equipment operator

Suggested Prerequisites

- Algebra IA
- Programmer Aptitude Test score of 45 or better
- Successful completion of a sampling experience in the Data Processing area, either through the Summer Vestibule Program or a departmental sampling program.

Students with less than an English level 3 may have difficulty in this program.

Approximate Time: 7 quarters



Data Processing: Diploma—NBTD (0802)

Typical Course Sequence

Fall Term

First Year

	Gt. Hrs.
0802-100 Introduction to Data Processing	2
0802-157 Beginning Computer Operations	1
0802-158 Laboratory	1
0817-122 Algebra IA	3
0847-101 Job Search Process	1
Communication	2
English	4
	14

Winter Term

	Gt. Hrs.
0802-125 Data Processing Technical Communications	2
0802-170 Utilities/JCL for Computers	2
0804-101 Orientation to Business	3
0847-100 Dimensions of College Life	2
Communication	2
English	4
	15

Spring Term

	Gt. Hrs.
0802-101 Introduction to Business Programming	3
0802-161 Business Computer Systems Facilities	3
0802-171 Computer Architecture	1
0817-123 Algebra IB	3
Communication	2
English	4
	15

Summer

0802-299 Co-op Vferk Experience	
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Second Year

0802-162 Computer Console Operations	1
0802-120 On-Line Processing Programming	2
0817-104 Business Mathematics	3
Business Elective	3
English	4
Physical Education	0
	-13

0802-260 System Generation for Operators	1
0802-261 Laboratory	2
0802-230 Business COBOL I	3
Business Elective	3
Communication	2
English	4
Physical Education	0
	15

0802-250 Multiprogramming/ Spooling for Operators	2
0802-251 Laboratory	1
0802-231 Business COBOL 11	3
0817-126 Algebra 2A	3
0802-390 Data Processing Seminar	2
Business Elective	2
Communication	2
	15

Data Processing: AA.S. Degree—NBTD (0802)

Typical Course Sequence

Fall Term		Winter Term		Spring Term				
First Year								
	Cr. Hrs.		Cr. Hrs.		Cr. Hrs.			
0802-100	Introduction to Data Processing	2	0802-125	Data Processing Technical Communications	2	0802-101	Introduction to Business Programming	3
0802-157	Beginning Computer Operations	1	0802-170	Utilities/JCL for Computers	2	0802-161	Business Computer Systems Facilities	2
0802-158	Laboratory	1	0817-123	Algebra IB	3	0817-104	Business Mathematics	3
0817-122	Algebra IA	3	0847-100	Dimensions of College Life	2	0804-101	Orientation to Business	3
0847-101	Job Search Process	1		English	4		Communication	2
	Communication	2		Physical Education	0		English	4
	English	4						
		14			13			17

Summer

0802-299 Co-op Work Experience

Second Year

0802-162	Computer Console Operations	1	0802-171	Computer Architecture	1	0802-250	Multiprogramming Spooling for Operators	2
0802-120	On-Line Processing Programming	2	0802-230	Business COBOL! Business Elective	3	0802-251	Laboratory	1
0817-126	Algebra IIA	3		Communication	2	0802-231	Business COBOL U	3
	Business Elective	3		English	4	0817-127	Algebra IIB	3
	English	4		Physical Education	0		Liberal Arts	4
	Physical Education	0			13		Communication	2
		13					Physical Education	0

Summer

0802-299 Co-op Work Experience

Third Year

0802-260	System Generation for Operators	2	0802-340	Assembler Language Programming	3	0802-390	Data Processing Seminar	1
0802-261	Laboratory	1	0802-262	Advanced Operating Systems	2		Technical Elective	3
0817-163	Data Processing Mathematics	3	0802-263	Laboratory	1		Liberal Arts	4
	Technical Elective	3		Business Elective	3		Communication	2
	Liberal Arts	4		Mathematics Elective	3			14
	Communication	2		Liberal Arts	J			
		15			16			

Computer Science

The undergraduate program in general computer science prepares students to enter employment as research programmers or enter graduate schools for specialized training. The master of science program in computer science prepares graduates to pursue advanced technical and theoretical studies in the field, for purposes of employment or further graduate study at the doctoral level. Degrees granted: AAS., B.S., M.S.

Computer Systems Management

The program prepares graduates for employment in leadership roles in computer industries and in computer applications departments of other industries. Degree granted: M.S.

Computer Technology

This program qualifies graduates as technicians capable of computer trouble shooting and repair. Bachelor's degree graduates are prepared for careers as technologists, capable of both software and hardware installation and maintenance. Degrees granted: AAS, B. Tech.

Information Science

The program prepares students for work in the areas of business, industry, and education where information is managed by data systems. Graduates will be proficient in the areas of data base systems, data management, information storage, information retrieval, library management, information media, and displays. Degree granted: M.S.

Information Systems

This program was developed to maximize career options for students who want to pursue an education in the application of computer science and technology to business and government. Degree granted: B.S.

AAS. Degree Program

Graduates Qualify for These Positions

Computer operator, low entry level business programmer trainee

Suggested Prerequisites

- Algebra IA
- Programmer Aptitude Test score of 45 or better
- Successful completion of a sampling experience in the Data Processing area, either through the Summer Vestibule Program or a departmental sampling program.

Students with less than English level 4 and Algebra IA may have difficulty with Liberal Arts and third-year courses.

Approximate Time: 11 quarters

Other RIT Programs in Computer Careers

College of Applied Science and Technology

Computer Information Systems

The program prepares graduates for careers as management systems analysts, information systems designers, and business applications programmers. The systems application area is selected from the other RIT programs. The master of science program in computer systems management provides students with professional competence in managing a computer installation or complex in industry, education, and government. Degrees granted: AAS., B. Tech, M.S.

Applied Science/Allied Health Professions

Students who have an interest in science and who like doing things to help people can combine both interests in an applied science/allied health career. These careers can take students into a medical or health service setting, or into research.

Students may choose programs in Medical Laboratory Technology, Medical Record Technology, and Optical Finishing Technology.

Other RIT Programs

Other applied science/allied health programs are available in the Colleges of Science, Graphic Arts and Photography, and Fine and Applied Arts. The Science and Engineering Support Department assists students cross registered in these colleges.

Medical Laboratory Technology Programs

Students may choose certificate or AAS degree programs to prepare for careers as histologic assistants or medical laboratory technicians.

Pre-Technical Program

More than 90 percent of the students applying for Medical Laboratory Technology programs require a pre-technical program, usually lasting three quarters. The program consists of biology, chemistry, math, English, communication, general education, and physical education.



Histologic Assistant: Certificate—NTSL (0816)

Typical Course Sequence

Fall Term		Winter Term		Spring Term	
	Cr. Hrs.		Cr. Hrs.		Cr. Hrs.
Pre-Technical Requirements					
0814-107	MLT Biology I	4	0814-108	MIT Biology II	4
0815-115	MLT Chemistry I	4	0815-116	MLT Chemistry II	4
0817-123	Algebra IB	3	0817-126	Algebra IIA	3
0847-100	Dimensions of College Life	2	0847-101	Job Search Process	1
	Communication	2		Communication	2
	English	4		English	4
	Physical Education	0		Physical Education	0
		19			17
First Year					
0816-101	Anatomy/Physiology and Disease I	4	0816-102	Anatomy/Physiology and Disease II	4
0816-111	Basic Histology	6	0816-115	Electrocardiography	2
0817-170	MLT Mathematics	3	0816-211	Histology II	6
	Communication	2	0847-102	Life After College	1
	English	4		Communication	2
		19		English	4
					19
				0816-299	MIT Co-op \Stark Experience

Histologic Assistant

Certificate Program

On-the-job Responsibilities

Perform routine procedures in electrocardiography and histology.

Places of Employment

Hospital, industrial, private, and research clinical laboratories

Graduates Qualify for This Position

Histologic assistant

Prerequisites

- MLT Biology I, II, III
- MLT Chemistry I, II, III
- Algebra IIA HB

Approximate Time:

- 7 quarters with pre-technical program
- 3 quarters without pre-technical program

Medical Laboratory Technology

AAS. Degree Program

On-the-job Responsibilities

Perform routine medical laboratory procedures in hematology, urinalysis, microbiology, histology, clinical chemistry, bloodbanking, serology, and parasitology.

Places of Employment

Clinical laboratories of hospitals, private clinics, physicians' offices, industrial clinical laboratories, municipal laboratories, and research clinical laboratories.

Graduates Qualify for These Positions

Medical laboratory technician, clinical chemistry assistant, microbiology assistant, and hematology assistant.

Prerequisites

- MLT Biology I, II, III
- MLT Chemistry I, II, III
- Algebra IIA HB



Approximate Time:

- 10 quarters with pre-technical program
- 7 quarters without pre-technical program

Medical Laboratory Technology: AAS. Degree—NTSL (0816)

typical Course Sequence

Fall Term		Winter Term		Spring Term	
	Cr. Hrs.		Cr. Hrs.		Cr. Hrs.
Pre-Technical Requirements					
0814-107	MLT Biology I	4	0814-108	MIT Biology II	4
0815-115	MLT Chemistry I	4	0815-116	MLT Chemistry II	4
8817-123	Algebra IB	3	0817-126	Algebra IIA	3
	Communication	2	0847-100	Dimensions of College Life	2
	English	4		English	4
	Physical Education	0		Physical Education	0
		17			17
First Year					
0816-101	Anatomy/Physiology and Disease I	4	0816-102	Anatomy/Physiology and Disease II	4
0816-121	Urinalysis	2	0816-123	Advanced Hematology	5
0816-122	Basic Hematology	4	0816-132	Immunology	3
0817-170	MLT Math	3		Communication	2
0847-101	Job Search Process	1		English or Liberal Arts	4
	English	4			18
		18			18
Summer					
			0816-299	Co-op Work Experience	15-18
Second Year					
0816-201	Clinical Chemistry I	6	0816-202	Clinical Chemistry II	5
0816-232	Microbiology II	6	0816-233	Microbiology III	5
	Liberal Arts	4		Liberal Arts	4
	Communication	2		Communication	2
		18			~16
			0816-203	Clinical Chemistry III	5
			0816-105	Medical Parasitology	2
			0816-224	Laboratory Simulation MLTIV	3
			0847-102	Life After College	1
				Liberal Arts	4
					15

Accreditation

The Medical Laboratory Technology program has applied for accreditation from the American Medical Association Committee on Allied Health Education and Accreditation (CAHEA) in collaboration with the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). Accreditation will allow graduates to write the MLT (ASCP) Certification Examination. Qualified second-year students in the MLT program will participate in an affiliated hospital experience as part of their educational program. Students are required to have a physical examination before participating in the clinical cooperative work experience. The RIT Student Health Center conducts physical examinations for a nominal fee.

Medical Record Technology Program

The medical record technician prepares, analyzes, and retrieves information from the patient health record to assist in the proper care of the patient. A medical record technician does not have direct patient contact.

The AA.S. program includes a clinical practicum and clinical affiliations in Rochester during two of the academic quarters. A cooperative work experience is taken in the student's home area during the summer quarter between the first and second years in the program. Students are responsible for obtaining their own transportation to these practice sites. A physical examination is required before beginning the affiliation program. The RIT Student Health Center conducts physical examinations for a nominal fee.

Pre-Technical Program

More than 90 percent of the entering students in the Medical Record Technology program require a pre-technical program. It is normally three quarters long.

Courses are determined by the skill levels of each student but generally include Mathematics (Algebra IA, IB, and Medical Record Statistics); English or Liberal Arts; Typing; Communication; Biology I, II, III; Health Care Organization and Structure; General Education, and Physical Education.

Accreditation

The Medical Record Technology program of NTID at RIT is accredited by the American Medical Association Committee on Allied Health Education and Accreditation (CAHEA) in collaboration with the American Medical Record Association (AMRA). Students graduating from an accredited educational program for medical record technicians qualify to write the professional accreditation exam. There is a fee for this examination. The amount is determined on a yearly basis by the AMRA



Medical Record Technology

A.A.S. Degree Program

On-the-job Responsibilities

Prepare medical records for patient care evaluation studies; collect statistical data including coding of diseases, procedures, diagnostic tests, and therapeutic measures; communicate with professionals within and external to the medical field; perform manual or automated storage and retrieval of medical records; prepare and maintain specialized registries; and keep records secure and confidential.

Places of Employment

Health care facilities including acute care, chronic care, specialized medical care, skilled nursing, rehabilitation, mental care, medical clinics, and Veterans Administration; research facilities; insurance companies; industry; automated health information centers; AMRA Executive Offices; medical record consulting firms; and medical record education facilities.

Prerequisites

- MRT Biology I, II, III
- Algebra IA IB

Approximate Time:

10 quarters with pre-technical program
7 quarters without pre-technical program

Medical Record Technology: AA.S. Degree—NTSR (0819)

Typical Course Sequence

Fall Term			Winter Term			Spring Term		
Pre-Technical Year								
	Cr.	Hrs.		Cr.	Hrs.		Cr.	Hrs.
0819-106	Biology I	4	0919-107	Biology II	4	0819-107	Biology III	4
0819-122	Algebra IA	3	0817-123	Algebra IB	3	0819-145	Health Organization	4
0804-111	Beginning Typing I	2	0804-112	Beginning Typing II	2	0817-109	Medical Record Statistics	3
0847-100	Dimensions of College Life	2		Communication	2	0804-113	Beginning Typing III	2
	Communication	2		English (IV)	4		English (V)	_4
	English (III)	4		Physical Education	0			17
		17			15			
First Year								
0819-111	Anatomy/Physiology I	4	0819-112	Anatomy/Physiology II	4	0819-143	Medical Records Science III	5
0819-141	Medical Records Science	5	0819-142	Medical Records Science II	5	0819-163	Medical Terminology III	3
0819-161	Medical Terminology I	3	0819-162	Medical Terminology II	3	0804-124	Data Processing	2
	Communication	2	0804-332	Advanced Typing I	3	0804-301	Word Processing	4
	English Composition	_4		Communication	2		Liberal Arts	_4
		18		Physical Education	0			18
					17			
Summer								
	0819-299	Co-op Work Experience						
Second Year								
0819-244	Medical Records Science IV	5	0819-245	Medical Records Science V	5	0819-246	Medical Records Science VI	5
0819-264	Medical Terminology IV	3	0819-265	Medical Terminology V	3	0819-266	Medical Terminology VI	3
0847-101	Job Search	1	0847-102	Life After College	2	0819-250	Pathophysiology	4
	Liberal Arts	4		Liberal Arts	4		Liberal Arts	4
	Communication	2		Communication	2			16
		15		Physical Education	0			
					16			

Optical Finishing Technology Programs

An optical finishing technologist makes eyeglasses prescribed by physicians and optometrists to correct vision defects. Technologists refine lenses to the specification of prescriptions as ordered by vision care specialists.

Students may choose certificate, diploma, and AAS. degree programs in Optical Finishing Technology.

Pre-Technical Program

More than 90 percent of those applying for the Optical Finishing Technology program require a pre-technical program. It generally is three quarters long and provides coursework in math, English, communication, and physical education.

Optical Finishing Technology

Certificate Program

On-the-job Responsibilities

Follow the vision care specialist's orders on the prescription, perform procedures requested by the laboratory supervisor that will help prepare the eyeglasses for use, and maintain laboratory and equipment according to industry (American National Standards Institute) standards.

Places of Employment

Offices of ophthalmologists, optometrists, and dispensing opticians; wholesale optical laboratories.

Graduates Qualify for Positions Requiring the Following Skills

Edging, hand refining, lens heat/chemical treatment, drop ball testing, and lens blocking.

Prerequisites

- Algebra IA IB
- Introduction to Optical Finishing Technology I, II, III
- Successful completion of a sampling experience in Optical Finishing Technology, either through the Summer Vestibule Program or a departmental sampling program

Approximate Time:

5 quarters with pre-technical program
3 quarters without pre-technical program



Optical Finishing Technology: Certificate—NTSF (0827)

Typical Course Sequence

Fall Term

Pre-Technical Requirements

		Cr. Hrs.
0817-122	Algebra IA	3
0827-105	Introduction to OFT I	2
0847-100	Dimensions of College Life	2
	Communication	2
	English	4
	Physical Education	0
		13

First Year

0827-111	OFT Math I	3
0827-115	Prescription Analysis I	3
0827-161	Optical Finishing Terminology I	3
	Communication	2
	English	4
		15

Winter Term

		Cr. Hrs.
0817-123	Algebra IB	3
0827-106	Introduction to OFT II	2
	General Education	2
	Communication	2
	English	4
	Physical Education	0
		13
0827-112	OFT Math II	3
0827-116	Prescription Analysis II	3
0827-162	Optical Finishing Terminology II	3
0827-121	Optical Finishing Techniques I	5
	English	4
		18

Spring Term

		Cr. Hrs.
0827-107	Introduction to OFT III	2
0847-101	Job Search Process	1
0818-168	Physics I (optional)	4
	Communication	2
	English	4
	Physical Education	0
		13
0827-163	Optical Finishing Terminology III	3
0827-122	Optical Finishing Techniques II	5
0827-226	OFT Lab Simulation II	5
0847-102	Life After College	1
	Communication	2
		16

Optical Finishing Technology

Diploma Program

On-the-job Responsibilities

Follow the vision care specialist's orders on the prescription, perform those procedures requested by the laboratory supervisor that will help prepare the eyeglasses for use, and maintain laboratory and equipment according to industry (American National Standards Institute) standards.

Places of Employment

Offices of ophthalmologists, optometrists, and dispensing opticians; wholesale optical laboratories.

Graduates Qualify for Positions Requiring the Following Skills

Vertometric evaluation, edging, hand refining, lens heat/chemical treatment, lens blocking, lens dyeing, and final checking and evaluation.

Prerequisites

- Algebra IA, IB
- Introduction to Optical Finishing Technology I, II, III
- Successful completion of a sampling experience in Optical Finishing Technology, either through the Summer Vestibule Program or a departmental sampling program



Approximate Time:

- 10 quarters with pre-technical program
- 7 quarters without pre-technical program

Optical Finishing Technology: Diploma—NTSF (0827)

Typical Course Sequence

Fall Term

Winter Term

Spring Term

Pre-Technical Requirements

Fall Term				Winter Term				Spring Term			
		Cr.	Hrs.			Cr.	Hrs.			Cr.	Hrs.
0817-122	Algebra IA	3		0817-123	Algebra IB	3		0818-165	Physics I	3	
0827-105	Introduction to OFT I	2		0827-106	Introduction to OFT II	2		0827-107	Introduction to OFT III	2	
0847-100	Dimensions of College life	2			General Education	2			General Education	2	
	Communication	2			Communication	2			Communication	2	
	English	4			English	4			English	4	
	Physical Education	0			Physical Education	0			Physical Education	0	
			13				13				13

First Year

0827-111	OFT Math I	3		0827-112	OFT Math II	3		0827-117	Lens Design	3	
0827-115	Prescription Analysis I	3		0827-116	Prescription Analysis II	3		0827-122	Optical Finishing Techniques II	5	
0827-161	Optical Finishing Terminology I	3		0827-121	Optical Finishing Techniques I	5		0827-123	Optical Finishing Techniques III	6	
0847-101	Job Search Process	1		0827-162	Optical Finishing Terminology II	3		0827-163	Optical Finishing terminology III	3	
	Communication	2			English	4					
	English	4				18					17
			16				18				

Summer

0827-299 Co-op Work Experience

Second Year

0827-224	Optical Finishing Techniques IV	5		0827-225	Lab Simulation I	5		0827-226	Lab Simulation II	5	
0827-241	Management of Optical Stockroom Procedures	4		0827-251	Optical Finishing Technology Seminar	2		0827-243	Optical Finishing Inspection/Correction	3	
	General Education	1		0818-166	Physics II	4			English	4	
	Communication	2		0847-102	Life After College	1					12
			12				12				

Optical Finishing Technology

A.A.S. Degree

On-the-job Responsibilities

Follow the vision care specialist's orders on the prescription, perform all procedures as necessary to complete the request, maintain the laboratory and equipment according to industry (American National Standards Institute) standards, and provide quality performance in all areas of the finishing laboratory.

Places of Employment

Offices of ophthalmologists, optometrists, and dispensing opticians; wholesale optical laboratories.

Graduates Qualify for Positions Requiring the Following Skills

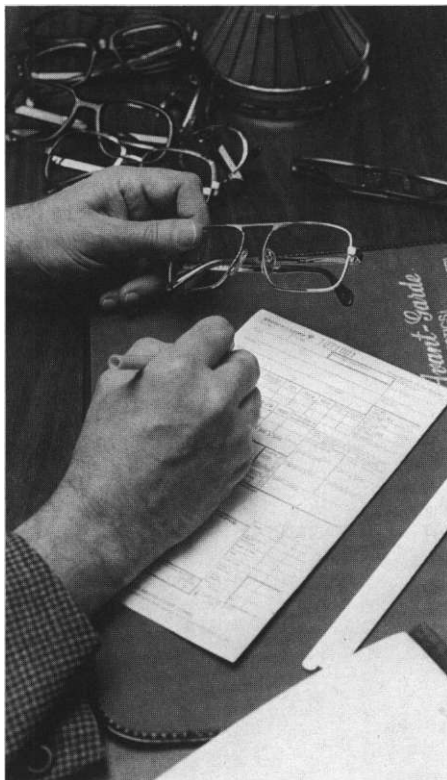
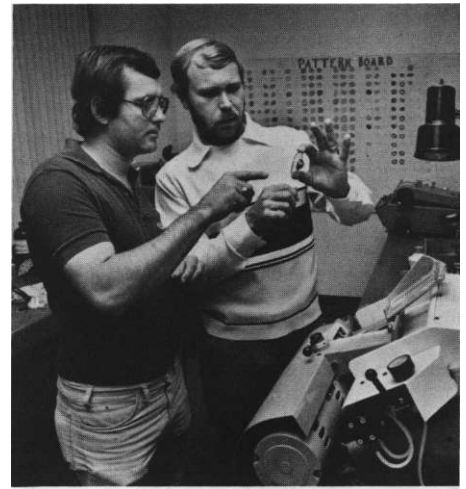
Vertometric evaluation, edging, lay-out, hand refining, lens heat/chemical treatment, lens blocking, lens dyeing, stockroom services, and final checking and evaluation.

Prerequisites

- Algebra IA IB
- Introduction to Optical Finishing Technology I, II, III
- Successful completion of a sampling experience in Optical Finishing Technology, either through the Summer Vestibule Program or a departmental sampling program

Approximate Time:

- 10 quarters with pre-technical program
- 7 quarters without pre-technical program



Optical Finishing Technology: AA.S. Degree—NTSF (0827)

Typical Course Sequence

Fall Term

Pre-Technical Requirements

		Cr. Hrs.
0817-122	Algebra IA	3
0827-105	Introduction to OFT I	2
0847-100	Dimensions of College Life	2
	Communication	2
	English	4
	Physical Education	0
		13

First Year

0827-111	OFT Math I	3
0827-115	Prescription Analysis I	3
0827-161	Optical Finishing Terminology I	3
0847-101	Job Search Process	1
	Communication	2
	English	4
		16

Second Year

0827-224	Optical Finishing Techniques IV	5
0827-241	Management of Optical Stockroom Procedures	4
	Liberal Arts	4
	Liberal Arts	
		17

Winter Term

		Cr. Hrs.
0817-123	Algebra IB	3
0827-106	Introduction to OFT II	2
	General Education	2
	Communication	2
	English	4
	Physical Education	0
		13

0827-112	OFT Math II	3
0827-116	Prescription Analysis II	3
0827-121	Optical Finishing Techniques I	5
0827-162	Optical Finishing Terminology II	3
	English or Liberal Arts	4
		18

Summer

0827-299	Co-op Work Experience	
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Spring Term

		Cr. Hrs.
0818-165	Physics I	3
0827-107	Introduction to OFT III	2
	Communication	2
	English	4
	Physical Education	0
		11

0827-117	Lens Design	3
0827-122	Optical Finishing Techniques II	5
0827-123	Optical Finishing Techniques III	6
0827-163	Optical Finishing Terminology III	3
		17

0827-226	Lab Simulation II	5
0827-243	Optical Finishing Inspection/Correction	3
	Liberal Arts	4
	Communication	2
		14

Other RIT Programs in Applied Science/ Allied Health Careers

College of Graphic Arts and Photography

Biomedical Photographic Communications

Graduates qualify for careers in media production, working with allied health teams in hospitals, medical and dental research centers, and other health institutions. Students can qualify for employment at the end of the second year and have the educational background necessary to apply for registration as biological photographers. Degrees granted: AAS., B.S.

College of Science

Applied Mathematics, Computational Mathematics

Graduates qualify for positions in industry and business as well as graduate study. A combination of mathematics courses and electives in computer science enhances employment opportunities. Degrees granted: AS., B.S.

Biology

Graduates qualify for occupations in medical research labs, food and agriculturally related industries, and pharmaceutical and environmental organizations, as well as for graduate study in biological disciplines and medical arts. Degrees granted: AS., B.S.

Biomedical Computing

Graduates are prepared to assume positions on the staffs of medical and industrial laboratories or hospital computer departments, or to work with physicians and other health professionals in a clinical environment and on medical research projects. Degree granted: B.S.

Biotechnology

Biotechnology is the use of living organisms or their components in the industrial process. Graduates of this program will be prepared to work in industries that are concerned with fulfilling some of society's fundamental needs. These industries include those that produce or use pharmaceuticals, agricultural products, petroleum, food, energy, and the like. Students learn new techniques in areas such as genetic engineering, industrial microbiology, and cell hybridoma. In addition to being prepared for immediate employment, some students may qualify for entrance into graduate programs for advanced study. Degree granted: B.S.

Chemical Technology

A three-year co-op curriculum leads to direct industrial employment. Emphasis is on qualitative and quantitative analysis skills and knowledge to perform industrial laboratory tasks. Degree granted: AAS.

Chemistry

Graduates qualify for higher level positions in several fields of chemistry, including professional industrial work in processing and laboratory operational research and experimental work, supervision of technical projects, managerial positions, and graduate study. The master of science program prepares students to increase the breadth and depth of their background and provides an opportunity to attract scientific problems of their own initiative. Degrees granted: AS., B.S., M.S.

Clinical Chemistry

The clinical chemistry program prepares students with a baccalaureate degree in chemistry, biology, medical technology, nuclear medicine technology, or a related field for careers in middle management in clinical chemistry laboratories. Degree granted: M.S.

Diagnostic Medical Sonography

Graduates are trained in abdominal, obstetrical, and gynecological ultrasound scanning techniques and procedures in preparation for positions in hospitals, clinics, research, and administration. The baccalaureate option includes three years at RIT and one year of clinical internship. The certificate option includes one year of clinical internship. Degree granted: B.S.

Materials Science and Engineering

This program, offered in conjunction with the colleges of Engineering and Science, offers interdisciplinary experience in materials studies, crossing over the boundaries of chemistry, physics, and electrical and mechanical engineering. Experimental courses in materials-related studies are offered, as well as opportunities for exploring avenues for greater harmony between industrial expansion and academic training. Degree granted: M.S.

Medical Technology

Graduates qualify for employment in hospital, industrial-medical, or research laboratories. Students spend three years at RIT and the last year in an approved hospital internship. Degree granted: B.S.

Nuclear Medicine Technology

This program prepares students to use radioactive materials in the diagnosis and treatment of disease. Graduates prepare and administer doses, operate nuclear medicine instruments, position patients for diagnostic procedures, and prepare information received from tests for the doctor's interpretation. Students spend three years at RIT and one year in a hospital internship. Degree granted: B.S.

Physics

Graduates find employment opportunities with industrial, academic, and government agencies, or pursue graduate study in such areas as biophysics, atmospheric science, applied science, or industrial business administration. Degrees granted: AS., B.S.

Pre-Medicine, Dentistry, Etc.

Students interested in pursuing a career in medicine, dentistry, optometry, osteopathic medicine, veterinary science, or podiatry may major in any College of Science or Institute program. No formal program exists specifically for preparation for these careers. The faculty Pre-Professional Advisory Committee counsels and assists RIT students in making application to professional schools. Degrees are awarded in the programs chosen by the students.

Engineering Technologies Careers

Students selecting Engineering Technologies careers may choose one of three career areas. Construction Technologies careers involve helping to design and participating in the construction of buildings, roads, and bridges. Electromechanical Technology careers involve working with engineers and researchers to provide technical support for the design, installation, and maintenance of machines using electrical, electronic, and mechanical devices. Industrial Technologies careers involve working with systems and special equipment used in industry throughout the country.

Students may choose diploma or AAS degree programs in:

1. Construction Technologies Careers

- Architectural Drafting
- Architectural Technology
- Civil Technology

2. Electromechanical Technology Careers

- Electromechanical Technology

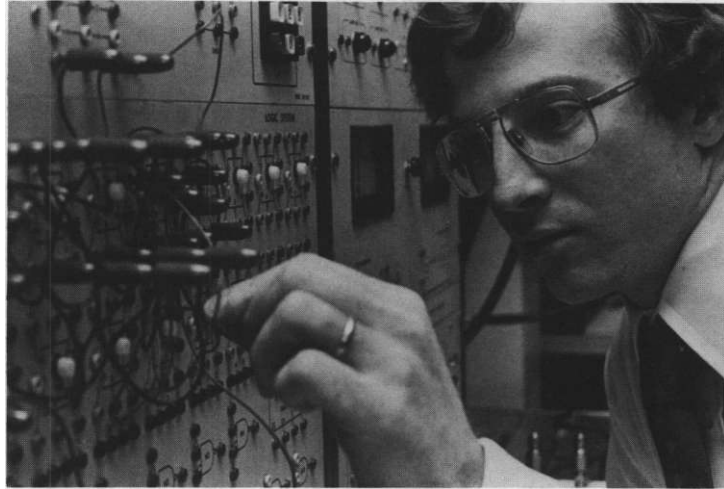
3. Industrial Technologies Careers

- Industrial Drafting
- Industrial Drafting Technology
- Manufacturing Processes

The AAS programs in Industrial Drafting Technology, Electromechanical Technology, Civil Technology, and Architectural Technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc. (ABET).

Other RIT Programs

Other engineering programs are available in the College of Engineering and College of Applied Science and Technology. The Science and Engineering Support Department assists students cross registered in these colleges.



C.O.R.E. Year Experience

Most students are required to enroll in the C.O.R.E. year sequence (Career Orientation and Exploration). This experience is three quarters in length and includes an in-depth sampling of program offerings within Engineering Technologies, as well as coursework in Mathematics, English, Communication, and General Education.

C.O.R.E. Year-Engineering Technologies (NETG)

Typical Course Sequence

Fall Term			Winter Term			Spring Term		
First Year			Second Year			Third Year		
		Cr. Hrs.			Cr. Hrs.			Cr. Hrs.
0817-122	Algebra IA	3	0817-123	Algebra IB	3	0817-126	Algebra IIA	3
0847-100	Dimensions of College Life	2		Career Exploration*	1		Career Exploration*	1
	Career Exploration*	1		General Education	3		General Education**	3
	Communication	2		Communication	2		Communication	2
	English	4		English	J		English	4
		12			13			13

*Students must choose at least three of the following career exploration courses: 0808-100 (Architectural Technology), 0809-100 (Civil Technology), 0810-100 (Industrial Drafting Technology), 0811-100 (Electromechanical Technology), 0813-100 (Manufacturing Processes). Students must sample a major to be admitted to it

**The departments encourage students to start Physics after completing Algebra IB. Students may register for Technical Physics 1 instead of General Education.

Construction Technologies Careers

The programs in Construction Technologies provide opportunities for students to learn skills related to the design and construction of architectural (buildings) and civil (roads, bridges, etc.) projects. Students may choose a diploma program in Architectural Drafting or an AAS. degree program in Architectural Technology or Civil Technology

Architectural Drafting

Diploma Program

On-the-job Responsibilities

Draw detailed plans of building and other structures, working from architect's and designer's notes and sketches; do lettering; make models; and know construction methods and materials.

Places of Employment

Architectural and engineering firms, construction companies, and government agencies

Graduates Qualify for This Position

Architectural drafter

Prerequisites

- Algebra IB
- English level 3

Approximate Time:

9 quarters with C.O.R.E. year experience
6 quarters without C.O.R.E. year experience



Architectural Drafting: Diploma—NETO (0808)

Typical Course Sequence

Fall Term			Winter Term			Spring Term		
First Year			First Year			First Year		
		Cr.Hrs.			Cr.Hrs.			Cr.Hrs.
0817-126	Algebra IIA	3	0817-127	Algebra IIB	3	0817-124	Geometry	3
0808-110	Construction Terminology	4	0808-201	Construction Methods and Procedures I	3	0808-202	Construction Methods and Procedures II	3
0808-111	Construction Drafting I	2	0808-112	Construction Drafting II	2	0808-113	Construction Drafting III	2
0847-100	Dimensions of College Life	2	0818-100	Technical Physics I	3	0818-125	Construction Technology	
	Communication	2		English	4		Physics II	3
	English	4		Physical Education	0		Communication*	2
	Physical Education	0			15		Physical Education	0
		17						13
Second Year			Second Year			Second Year		
0808-211	Architectural Materials I	3	0808-212	Architectural Materials II	3	0808-220	Principles of Structural Systems	4
0808-221	Architectural Design Drafting I	4	0808-222	Architectural Design Drafting II	4	0808-223	Architectural Design Drafting III	4
0808-377	Building Equipment	3	0808-224	Construction Computations	2	0808-375	Architectural History	2
0818-126	Construction Technology		0808-390	Architectural Technology Seminar	2	0808-376	Building Estimating	2
	Physics III	3		General Education	2	0809-241	Mapping I	2
0847-101	Job Search Process					0847-102	Life After College	1
		14			13			15

*Students who enter this program without the C.O.R.E. year experience will need to take additional English and Communication courses.

Architectural Technology

AAS. Degree Program

This program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

On-the-job Responsibilities

Work with architects and engineers to plan construction and remodeling of buildings and other structures, including preliminary drawings, design development drafting, working drawings, presentation graphics, model making, cost estimating, structural planning, and knowledge of construction methods and materials.

Places of Employment

Architectural, engineering, and construction companies; government agencies; corporate design offices

Graduates Qualify for These Positions

Architectural drafter, architectural technician, construction engineering drafter, model maker, renderer, and planning aide

Prerequisites

- Algebra IIA
- English level 3

Approximate Time:

12 quarters with C.O.R.E. year experience
9 quarters without C.O.R.E. year experience



Architectural Technology: AA.S. Degree—NETA (0808)

Typical Course Sequence

Fall Term			Winter Term			Spring Term		
First Year			Cr. Hrs.			Cr. Hrs.		
0817-127	Algebra IIB	3	0817-124	Geometry	3	0817-128	Trigonometry	3
0808-110	Construction Terminology	4	0808-201	Construction Methods I	3	0808-202	Construction Methods II	3
0808-111	Construction Drafting I	2	0808-112	Construction Drafting II	2	0808-113	Construction Drafting III	2
0847-100	Dimensions of College Life	2	0818-100	Technical Physics I	3	0818-125	Construction Physics II	3
	Communication	2		Communication	2		Communication*	2
	English	4		English	4		Physical Education	0
	Physical Education	0		Physical Education	0			13
		17			17			
			Summer					
			0808-299	Architectural Technology Co-op Work Experience				
Second Year								
0817-201	College Algebra, Trigonometry, and Analytic Geometry I	3	0817-202	College Algebra, Trigonometry, and Analytic Geometry II	3	0808-220	Principles of Structural Systems	4
0808-211	Architectural Materials I	3	0808-212	Architectural Materials II	3	0808-223	Architectural Design Drafting III	4
0808-221	Architectural Design Drafting I	4	0808-222	Architectural Design Drafting II	4	0809-241	Mapping I	2
0818-126	Construction Physics III	3	0808-390	Architectural Technology Seminar	2		Liberal Arts	4
0847-101	Job Search Process	1		Liberal Arts	4			14
		14			16			
Third Year								
0808-340	Planning Project	5	0808-351	Architectural Project I	5	0808-352	Architectural Project II	5
0808-377	Building Equipment	3	0809-260	Strength of Materials	4	0808-375	Architectural History	2
0809-250	Statics	4	0847-102	Life After College	1	0808-376	Building Estimating	2
	Liberal Arts	3		Liberal Arts	4		Technical Elective	1-3
		16			14		Liberal Arts	4
								14-16

*Students who enter this program without the C.O.R.E. year experience will need to take additional English and Communication courses.

Civil Technology

A.A.S. Degree Program

This program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). RIT offers an accredited bachelor degree program in Civil Engineering Technology in the College of Applied Science and Technology. Graduates of the AAS. program can apply for the bachelor degree program.

On-the-job Responsibilities

Use a variety of skills such as drafting, surveying, materials testing, inspection of construction, and knowledge of materials and methods used in construction.

Places of Employment

Government agencies; construction companies; engineering, surveying, and architectural firms; oil and steel industries; transportation agencies; and materials testing laboratories

Graduates Qualify for These Positions

Design assistant, materials lab technician, construction inspector, civil drafter, assistant surveyor, and structural drafter

Prerequisites

- Algebra IIA
- English level 3

Approximate Time:

12 quarters with C.O.R.E. year experience
9 quarters without C.O.R.E. year experience



Civil Technology: AA.S. Degree—NETC (0809)

Typical Course Sequence

Fall Term

		Cr. Hrs.
0817-127	Algebra IIB	3
0808-110	Construction Terminology	4
0808-111	Construction Drafting I	2
0847-100	Dimensions of College Life	2
	Communication	2
	English	4
	Physical Education	0
		17

Winter Term

		Cr. Hrs.
0817-124	Geometry	3
0808-210	Construction Methods I	3
0808-112	Construction Drafting II	2
0818-100	Technical Physics I	3
	Communication	2
	English	4
	Physical Education	0
		17

Spring Term

		Cr. Hrs.
0817-128	Trigonometry	3
0808-202	Construction Methods II	3
0808-113	Construction Drafting III	2
0818-126	Construction Physics III	3
	Communication*	2
	Physical Education	0
		13

Second Year

0817-201	College Algebra, trigonometry, and Analytic Geometry I	3	0817-202	College Algebra, Trigonometry, and Analytic Geometry II	3	0809-231	Surveying I	4
0809-250	Statics	4	0809-260	Strength of Materials	4	0809-241	Mapping I	2
0809-285	Civil Technology Seminar	2	0809-283	Soil Mechanics	4	0809-284	Engineering Materials	4
0818-125	Construction Physics II	3	0809-390	Construction Seminar	2	0809-290	Computer Programming	3
0847-100	Job Search Process	1				Liberal Arts		17
		13						

Summer

0809-299	Civil Technology Co-op Work Experience	
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Third Year

0809-232	Surveying II	3	0809-322	Structural Design Drafting II	4	0809-323	Structural Design Drafting III	4
0809-242	Mapping II	2	0809-350	Highway Design and Construction	4	0809-385	Principles of Environmental Technology	4
0809-321	Structural Design Drafting I	4	0847-102	Life After College	1		Technical Elective	1-3
0809-340	Fundamentals of Fluid Mechanics	4		Liberal Arts	4		Liberal Arts	4
	Liberal Arts	4			13			13-15
		17						

*Students who enter this program without C.O.R.E. year experience will need to take additional English and Communication courses.

Electromechanical Technology Careers

A variety of career options are offered through the Electromechanical Technology Program. This program involves work with systems and special equipment used in industry throughout the country.

Electromechanical Technology

A.A.S. Degree Program

This program has been accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

On-the-job Responsibilities

Construct and maintain equipment, apply knowledge of mechanical and electronic principles, service test equipment and machinery, and install electromechanical equipment.

Places of Employment

Engineering and manufacturing industries, government agencies, and military labs

Graduates Qualify for These Positions

Research aide, engineering technician, quality control technician, service technician, engineering aide, automated equipment technician, and field service representative

Prerequisite

- Algebra IB

Students with less than an English level 3 may have difficulty with this program.

Approximate Time:

12 quarters with C.O.R.E. year experience
9 quarters without C.O.R.E. year experience



Electromechanical Technology: AA.S. Degree—NETM (0811)

Typical Course Sequence

Fall Term			Winter Term			Spring Term		
		Cr. Hrs.			Cr. Hrs.			Cr. Hrs.
0817-126	Algebra IIA	3	0817-127	Algebra IIB	3	0811-213	Electrical Circuits I	5
0818-100	Technical Physics I	3	0818-135	Technical Physics 11	3	0811-211	Mechanical Components	4
0810-101	Basic Drafting I	2	0811-241	Tool Skills	2	0817-128	Trigonometry	3
0847-100	Dimensions of College Life	1 2		Communication*	2		Liberal Arts	4
	English	4		English Communication	4		Physical Education	0
	Physical Education	0		Physical Education	0			16
		15			14			
Second Year								
0811-304	Electrical Circuits II	5	0811-368	Electronics I	5	0811-369	Electronics II	5
0811-317	Mechanisms	4	0811-321	Machines and Power Systems I	4	0811-324	E/M Devices and Systems I	4
0811-210	Computational Techniques	4	0817-202	College Algebra, Trigonometry, and Analytic Geometry II	3	0811-209	Technical Graphics	2
0817-201	College Algebra, Trigonometry, and Analytic Geometry I	3		Liberal Arts	4	0817-203	College Algebra, Trigonometry, and Analytic Geometry III	3
0847-101	Job Search Process	1			-16			14
		17						
Summer								
			0811-299	EMT Co-op Work Experience				
Third Year								
0811-322	Machines and Power Systems II	4	0811-327	E/M Systems Lab I	2	0811-328	E/M Systems Lab II	2
0811-325	E/M Devices and Systems II	4	0811-171	Digital and Analog Systems	4	0811-234	E/M Concepts	4
0811-370	Electronics III	4		Technical Elective	4	0847-102	Life After College	1
	Liberal Arts	4		Liberal Arts	4		Technical Elective	4
		-16			14		Liberal Arts	4
								15

*Students who enter this program without the C.O.R.E. year experience will need to take additional English and Communication courses.

Industrial Technologies Careers

Programs in Industrial Technologies Careers involve studies and applications of the systems and special equipment used in industry throughout the country. Students may choose diploma programs in Industrial Drafting and Manufacturing Processes, and an AAS. degree program in Industrial Drafting Technology.

Industrial Drafting

Diploma Program

On-the-job Responsibilities

Prepare detailed production drawings (manually and using computer-aided drafting equipment) for manufactured products from sketches, drawings, and specifications prepared by others.

Places of Employment

Manufacturing industries, engineering firms, metal-working industries, drafting shops, government agencies, and engineering research firms.

Graduates Qualify for These Positions

Mechanical drafter, electrical drafter, electro/mechanical drafter

Prerequisite

- Algebra IIA

Students with less than an English level 3 may have difficulty with this program.

Approximate Time:

10 quarters with C.O.R.E. year experience
7 quarters without C.O.R.E. year experience



Industrial Drafting: Diploma—NETI (0810)

Typical Course Sequence

Fall Term

Winter Term

Spring Term

First Year

	Cr. Hrs.		Cr. Hrs.		Cr. Hrs.			
0810-141	Basic Technical Drafting I	3	0810-142	Basic Technical Drafting II	3	0810-143	Basic Technical Drafting III	3
0817-127	Algebra IIB	3	0817-124	Geometry	3	0817-128	Trigonometry	3
0847-100	Dimensions of College Life	2	0818-100	Technical Physics I	3	0818-135	Technical Physics II	3
	Communication	2		Communication	2		Communication*	2
	English	4		English	4		English	4
	Physical Education	0		Physical Education	0		Physical Education	0
		14			15			15

Second Year

0810-201	Technical Drafting I	5	0810-202	Technical Drafting II	4	0810-203	Technical Drafting III	4
0810-151	Materials and Processes I	3	0810-152	Materials and Processes II	3	0810-211	Supervised Study in Drafting	1
0810-131	Manufacturing Processes I	1	0810-132	Manufacturing Processes II	1	0847-102	Life After College	1
0847-101	Job Search Process	1		Electives	4		Electives	6
	Elective	2			12			12
		12						

*Students who enter this program without the C.O.R.E. year experience will need to take additional English and Communication courses.

Industrial Drafting Technology

A.A.S. Degree Program

This program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

On-the-job Responsibilities

Handle normal drafting assignments using drafting standards and engineering terms, gather data and information for engineers, draw layouts of design concepts for new machines or products, draw layouts for drafters' use in drawing parts, and use computer-aided drafting equipment.

Places of Employment

Manufacturing industries, engineering firms, drafting shops, government agencies, metal-working industries, and engineering research firms

Graduates Qualify for These Positions

Mechanical drafter, electrical drafter, electro/mechanical drafter, mechanical designer, and electro/mechanical designer

Prerequisite

- Algebra IIA

Students with less than an English level 3 may have difficulty in this program.

Approximate Time:

14 quarters with C.O.R.E. year experience
11 quarters without C.O.R.E. year experience



Industrial Drafting Technology: AA.S. Degree—NETI (0810)

Typical Course Sequence

Fall Term			Winter Term			Spring Term		
Cr. Hrs.			Cr. Hrs.			Cr. Hrs.		
First Year								
0810-141	Basic Technical Drafting I	3	0810-142	Basic Technical Drafting II	3	0810-143	Basic Technical Drafting III	3
0817-127	Algebra IIB	3	0817-124	Geometry	3	0817-128	Trigonometry	3
0847-100	Dimensions of College Life	2	0818-100	Technical Physics I	3	0818-135	Technical Physics II	3
	Communication	2		Communication	2		Communication*	2
	English	4		English	4		English	4
	Physical Education	0		Physical Education	0		Physical Education	0
		14			15			15
Second Year								
0810-201	Technical Drafting I	5	0810-202	Technical Drafting II	4	0810-203	Technical Drafting III	4
0810-151	Materials and Processes I	3	0810-152	Materials and Processes II	3	0817-203	College Algebra, Trigonometry, and Analytic Geometry III	3
0810-131	Manufacturing Processes I	1	0810-132	Manufacturing Processes II	1	0810-211	Supervised Study in Drafting	1
0817-201	College Algebra, Trigonometry, and Analytic Geometry I	3	0817-202	College Algebra, trigonometry, and Analytic Geometry II	3		Liberal Arts	4
	Electives	4		Liberal Arts	4		Elective	3
		-16			15			15
Third Year								
0810-204	Technical Drafting IV	3	0810-205	Technical Drafting V	3	0810-206	Technical Drafting VI	5
0810-213	Statics	5	0810-214	Strength of Materials	5	0810-222	Machine Design II	4
0810-215	Mechanisms	4	0810-221	Machine Design	4	0847-102	Life After College	1
0847-101	Job Search Process	1		Liberal Arts	4		Technical Elective	3
	Liberal Arts	4			-16		Liberal Arts	4
		17						17

*Students who enter this program without the C.O.R.E. year experience will need to take additional English and Communication courses.

Manufacturing Processes

Diploma Program

On-the-job Responsibilities

Set up and operate machine tools such as lathes, drill presses, milling machines; shape metal into machine parts, following working plans; and use special instruments to measure and check work.

Places of Employment

Manufacturing industries, metal-working industries, engineering firms, and engineering research firms

Graduates Qualify for These Positions

(Entry level and apprenticeship programs)
 Tool and die maker, instrument maker, mold maker, pattern maker, model maker inspector, machinist, NC operator, NC programmer trainee

Prerequisite

- Algebra IB

Approximate Time:

10 quarters with C.O.R.E. year experience
 7 quarters without C.O.R.E. year experience



Manufacturing Processes: Diploma—NETT (0813)

Typical Course Sequence

Fall Term				Winter Term				Spring Term			
First Year				Second Year							
			Cr. Hrs.				Cr. Hrs.				Cr. Hrs.
0817-126	Algebra IIA		3	0817-127	Algebra IIB		3	0817-128	Trigonometry		3
0813-131	Manufacturing Processes I		4	0813-132	Manufacturing Processes II		4	0813-133	Manufacturing Processes III		4
0813-139	Blueprint Reading I		2	0813-140	Blueprint Reading II		2	0813-154	Precision Measurement		2
0847-100	Dimensions of College Life		2		Communication		2		Communication*		2
	Communication		2		English		4		English*		4
	English		4		Physical Education		0		Physical Education		0
	Physical Education		0				15				15
			17								
0813-134	Manufacturing Processes IV		4	0813-135	Manufacturing Processes V		4	0813-136	Manufacturing Processes VI		4
0810-101	Basic Drafting I		2	0810-102	Basic Drafting II**		2	0813-152	Manufacturing Analysis**		3
0813-151	Industrial Materials		3	0813-153	WeldingI**		2	0813-155	WildingII**	4	2
0847-101	Job Search Process		1	0812-151	Numerical Control*		4	0812-152	Numerical Control II**		4
	Electives				Elective		2	0847-102	Life After College		1
			14				14				14

*Students who enter this program without the C.O.R.E. year experience will need to take additional English and Communication courses.

**Technical Electives: Students must take two or three suggested courses each quarter but must enroll in a minimum of 12 credit hours each quarter.

Other RIT Programs in Engineering Careers

College of Applied Science and Technology

Civil Engineering Technology

The program offers two options—environmental controls and construction. The environmental option places emphasis on water and wastewater treatment. The construction option is oriented toward the building industry? Degree granted: B. Tech.

Computer Technology

Students may enter this program either as transfers possessing an AAS. degree in an appropriate field, or as freshmen with a high school diploma. Students gain experience both through academic work and cooperative work experience in industry. The program provides students with technical skills in both computer science and electrical engineering on an applied basis. They will be able, with these skills, to work in areas concerned with the interface between computer hardware and software. Graduates will be qualified to seek employment in a variety of industries, businesses, and with government agencies concerned with microcoding, microprocessors, and with the more complex mini and microcomputers. Five quarters of co-op are required. Degrees granted: AAS., B. Tech.

Electrical Engineering Technology

Early emphasis in this program is on further mastery in circuit theory, materials for design, and mathematics. Later courses are elective options in electronic power, communications, and digital computer design* Degree granted: B. Tech.

Energy Technology

This program prepares specialists in the field of residential, commercial, and industrial energy management and control* Degree granted: B. Tech.

Manufacturing Engineering Technology

The program prepares persons to apply sophisticated techniques to production processes. Courses emphasize computer-aided manufacturing, productivity, and related activities required to enter this increasingly complex field! Degree granted: B. Tech.

Mechanical Engineering Technology

Early emphasis in this program is on further mastery of mechanics, electricity, and mathematics. Later courses are elective options in either manufacturing or mechanical design. The practical and applied aspects of engineering are emphasized! Degree granted: B. Tech.



Packaging Science

The three options—management, design, or technical—prepare students for initial employment in such areas as management, sales, marketing, purchasing, graphic design, structural design, product development, and the technical and engineering phases of production. Degrees granted: B.S., M.S.

College of Engineering

Computer Engineering

This program, jointly sponsored by the Department of Electrical Engineering and the School of Computer Science and Technology, offers a blend of computer science and electrical engineering that is designed to enable graduates to intelligently incorporate computers with engineering products. Undergraduate students first develop proficiency in mathematics, science, and engineering fundamentals* Degree granted: B.S.

Electrical Engineering

Undergraduate students first develop proficiency in mathematics, science, and engineering fundamentals. Fundamental electrical studies include electromagnetics, energy conversion, circuit theory, and electronics. Graduate programs leading to master of engineering and master of science degrees prepare students with insight, understanding, and competence to meet demands of current and future positions in engineering* Degrees granted: B.S, M.S.

Electrical Engineering A.A.S. Transfer Program

This specialized program provides a clearly defined route to the bachelor of science degree in Electrical Engineering for holders of an AAS. degree in Electrical Technology. Incoming students enroll in transfer adjustment courses as NTID pre-majors for several quarters before entering as third-year students. Degree granted: B.S.

Industrial Engineering

Students learn design improvement and installation of integrated systems of persons, materials, and equipment. Students also develop specialized knowledge in mathematics and physical science with methods of engineering and design. Degree granted: B.S.

Mechanical Engineering

This program leads to a career in perhaps the most comprehensive of all the engineering disciplines. Undergraduate students devote the first two years to the study of mathematics, physics, chemistry, and mechanics. The final three years integrate the cooperative work experience with professional subject matter in solid body mechanics or thermal fluid systems. The areas of manufacturing, environmental science, computer-aided design, and materials science are also offered. Graduate programs leading to master of engineering and master of science degrees prepare students with insight, understanding, and competence to meet demands of current and future positions in engineering. Degrees granted: B.S, M.S.

Microelectronic Engineering

This five-year program, offered in conjunction with the College of Graphic Arts and Photography and the College of Science, emphasizes the photolithographic aspects of microelectronic processing, and provides a broad background in optics, chemistry, device physics, computers, electrical engineering, and statistics. Students have hands-on experience in the design and production of integrated circuits and are prepared to enter industry directly or to pursue graduate work in the field* Degree granted: B.S.

*Five quarters of cooperative work experience are blended into the final three years of this program.

Visual Communication Careers

Art Careers

The art field has two major careers areas: applied art and fine art. Applied artists create art to be used by other persons or companies for which they work. Fine artists create art to express themselves.

The NTID Applied Art Department prepares students for technical careers in applied art. Students may choose certificate, diploma, or AAS. degree programs in Applied Art.

Other RIT Programs

Other applied art programs, as well as fine art and craft programs, are available in the College of Fine and Applied Arts. The Visual Communication Support Department assists students cross registered in this college.

Pre-Technical Program

Many students who want to enter the art program require a pre-technical program. It usually lasts one quarter. Students can meet pre-technical program requirements and take core courses at the same time.

Core Program

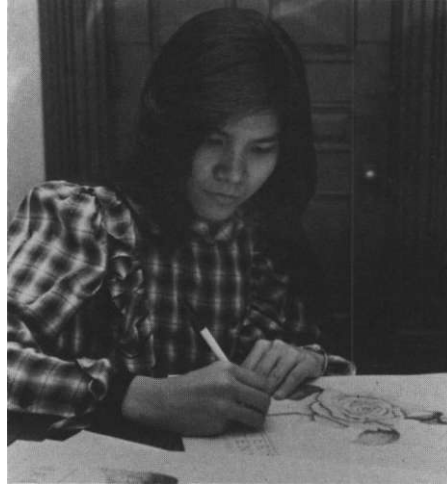
Core courses provide basic art experience to prepare students for entry into a major. With the core experience as a basis, students may choose continued studies in either the Applied Art Department or the College of Fine and Applied Arts.

In-House Coop

In-House Co-op is a cooperative work program on campus where students get experience with the real world of applied art. The co-op experience is similar to a job in a professional art studio. The co-op studio has the professional equipment necessary to complete various jobs for clients from all parts of the RIT community. Examples of the services offered through the In-House Co-op are graphic design and production, audio/visual packages, and exhibition work. Students who work for In-House Co-op earn money while they learn important job skills. Applied Art students have In-House Co-op work experience as part of their third-year coursework.

Art House

A special interest Art House provides a living and learning experience for art students. More information on the Art House is available on page 72.



Applied Art

Certificate Program

There is a need for people in entry-level positions in the applied art field. Large companies or agencies need people who can apply basic art skills to a specific job in support of other artists or art projects. The certificate program offers courses and experiences that are planned with each student. These plans are written in a learning contract or agreement.

On-the-job Responsibilities

Assist with the production and assembling of artwork for advertisements, brochures, pamphlets, and magazines; and operate typesetting, photostat, and other equipment.

Places of Employment

Advertising agencies; large department stores, manufacturing, printing, and publishing firms; and educational institutions

Graduates Qualify for These Positions

Photostat camera operator, paste-up artist, and studio assistant

Prerequisite

- Successful completion of a sampling experience in the art area, either through the Summer Vestibule Program or a departmental sampling program

Approximate Time: 3 to 4 quarters

Applied Art: Certificate—NDAR (0849)

Typical Course Sequence

Fall Term			Winter Term			Spring Term		
Cr.	Hrs.		Cr.	Hrs.		Cr.	Hrs.	
0849-121	3	Basic Drawing I	0849-132	3	Media/Processes II	0849-133	3	Media/Processes III
0849-111	2	Basic Design	0849-142	1	Career Seminar II	0849-143	1	Career Seminar III
0849-131	3	Media/Processes I	0849-399	6	Independent Study in Applied Art	0849-	2	Applied Art Elective*
0849-141	1	Career Seminar I	0849-	2	Applied Art Elective*	0849-399	5	Independent Study in Applied Art
0847-100	2	Dimensions of College Life**	0847-102	1	Life After College**		1	
0847-101	1	Job Search Process**		4	Communication		2	Communication
	2	Communication		0	Physical Education		4	English
	4	English		18				
	0	Physical Education						
	18							18

*See page 47 for Applied Art Technical Electives.

** May be waived by department; Career Seminar and Employment Seminar courses are appropriate substitutes.

Applied Art

Diploma and AA.S. Degree

On-the-job Responsibilities

Produce artwork for advertising, sales promotion, public relations, and display purposes; prepare visual methods for brochures, pamphlets, slide programs, instructional media, magazine and newspaper advertisements, displays, and posters; prepare artwork for printing; perform darkroom functions; operate typesetting, photostat, copy camera, and other applied art studio equipment.

Places of Employment

Advertising agencies; art studios; large department stores; manufacturing, printing, or publishing firms; educational institutions; and government agencies

Graduates Qualify for These Positions

Art apprentice, layout artist, mechanical artist, graphic artist, and production artist

Prerequisites

- Successful completion of a sampling experience in the art area, either through the Summer Vestibule Program or a departmental sampling program
- Demonstrated skill in the following areas: two-dimensional design, three-dimensional design, freehand drawing, technical drawing, measurement, mathematics, program/career information, communication/language, personal/social skills, and motor skill characteristics. Each competency (skill) has certain activities associated with it. Success is measured according to a checklist of specific requirements published by the department.

Approximate Time: 9 quarters

Applied Art: Diploma—NDAR (0849)

Typical Course Sequence

Fall Term

First Year

		Cr. Hrs.
0849-111	Basic Design I	2
0849-121	Basic Drawing I	3
0849-131	Media/Processes I	3
0849-141	Career Seminar I	1
0847-100	Dimensions of College Life**	2
0847-101	Job Search Process**	1
	Communication	2
	English	4
	Physical Education	0
		18

Second Year

0849-211	Layout Applications I	2
0849-221	Mechanical Preparation I	3
0849-231	Introduction to Typography I	2
0849-241	Art Survey I	2
	Communication	2
	English	4
		15

Third Year

0849-311	Graphic Applications I	5
0849-321	Employment Seminar I	3
0849-	Applied Art Elective*	2
0849-	Applied Art Elective*	2
		12

Winter Term

Cr. Hrs.

0849-112	Basic Design II	2
0849-122	Basic Drawing II	3
0849-132	Media/Processes II	3
0849-142	Career Seminar II	1
	Communication	2
	English	4
	Physical Education	0
		1C

Spring Term

Cr. Hrs.

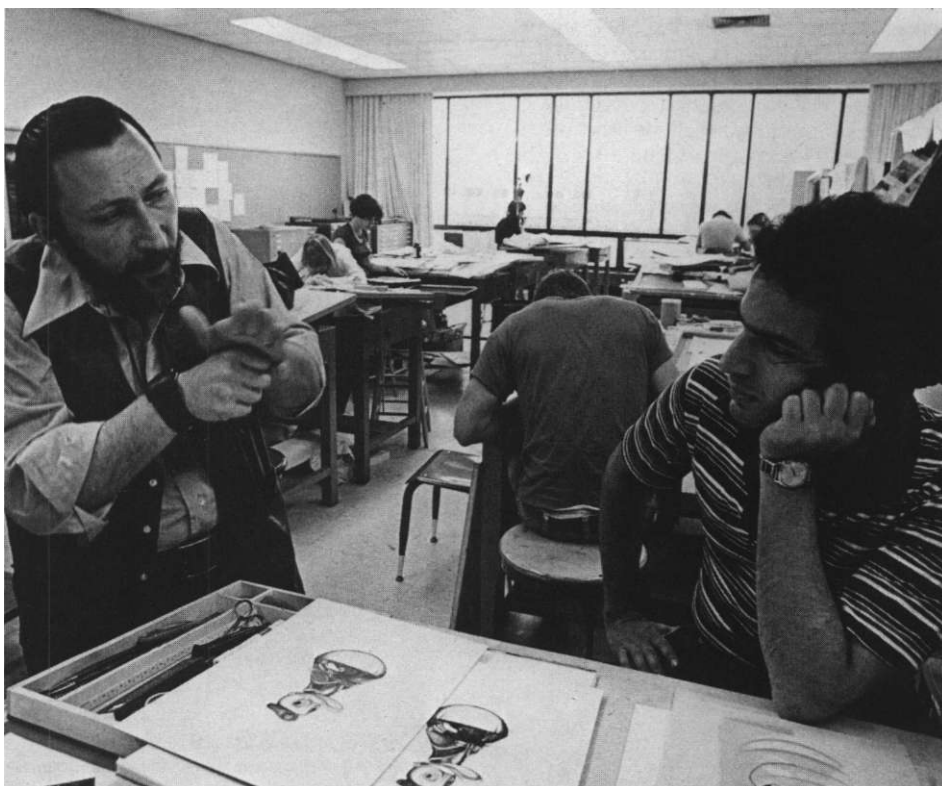
0849-113	Basic Design III	2
0849-123	Basic Drawing III	3
0849-133	Media/Processes III	3
0849-143	Career Seminar III	1
0849-	Applied Art Elective*	2
	Communication	2
		12

0849-213	Layout Applications III	2
0849-223	Mechanical Preparation III	3
0849-233	Introduction to Typography III	2
0849-243	Art Survey III	2
	Communication	2
	English	4
		15

0849-313	Graphic Applications III	5
0847-323	Employment Seminar III	3
0849-	Applied Art Elective*	2
0849-	Applied Art Elective*	2
0847-102	Life After College**	1
		13

*See page 47 for Applied Art Technical Electives; 14 or more elective credits are required for the diploma.

**May be waived by department; Career Seminar and Employment Seminar courses are appropriate substitutes.



Applied Art: AA.S. Degree—NDAR (0849)

Typical Course Sequence

Fall Term			Winter Term			Spring Term		
First Year			Cr. Hrs.			Cr. Hrs.		
0849-111	Basic Design I	2	0849-112	Basic Design II	2	0849-113	Basic Design III	2
0849-121	Basic Drawing I	3	0849-122	Basic Drawing II	3	0849-123	Basic Drawing III	3
0849-131	Media/Processes I	3	0849-132	Media/Processes II	3	0849-133	Media/Processes III	3
0849-141	Career Seminar I	1	0849-142	Career Seminar II	1	0849-143	Career Seminar III	1
0847-100	Dimensions of College Life**	2	0849-	Applied Art Elective*	2	0849-	Applied Art Elective*	2
0847-101	Job Search Process**	1		Communication	2		Communication	2
	Communication	2		English	4		English	4
	English	4		Physical Education	0			17
	Physical Education	0			17			
		18						
Second Year			Cr. Hrs.			Cr. Hrs.		
0849-211	Layout Applications I	2	0849-212	Layout Applications II	2	0849-213	Layout Applications III	2
0849-221	Mechanical Preparation I	3	0849-222	Mechanical Preparation II	3	0849-223	Mechanical Preparation III	3
0849-231	Introduction to Typography I	2	0849-232	Introduction to Typography II	2	0849-233	Introduction to Typography III	2
0849-241	Art Survey I	2	0849-242	Art Survey II	2	0849-243	Art Survey III	2
0849-	Applied Art Elective*	2		Liberal Arts	4	0849-	Applied Art Elective*	2
	Communication	2		English	4		Liberal Arts	4
	English	4			17		Communication	2
		17						17
Third Year			Cr. Hrs.			Cr. Hrs.		
0849-311	Graphic Applications I	5	0849-312	Graphic Applications II	5	0849-313	Graphic Applications III	5
0849-321	Employment Seminar I	3	0849-322	Employment Seminar II	3	0849-323	Employment Seminar III	3
0849-	Applied Art Elective*	2	0849-	Applied Art Elective*	2	0849-	Applied Art Elective*	2
	Liberal Arts	4		Liberal Arts	4	0847-102	Life After College**	1
		14			14		Liberal Arts	4
								15

*See this page for Applied Art Technical Electives; 14 or more elective credits are required for the diploma.

** May be waived by department; Career Seminar and Employment Seminar courses are appropriate substitutes.

Applied Art Technical Electives

	Hrs.	Cr.	Prerequisite
Air Brush/Retouching NDAR-204 (0849-204)	3	2	Basic Design 112 Basic Drawing 122 Media/Processes 132
Freehand Lettering NDAR 214 (0849-214)	3	2	Media/Processes 131
Finished Lettering NDAR 224 (0849-224)	3	2	Freehand Lettering 214
Mechanical Perspective NDAR 234 (0849-234)	3	2	Basic Drawing 121
Applied Art Photography NDAR 244 (0849-244)	3	2	None
Drawing Applications NDAR 254 (0849-254)	3	2	Basic Drawing 123
Three-Dimensional Applications NDAR 264 (0849-264)	3	2	None
Mechanical Drawing Methods NDAR 274 (0849-274)	3	2	Mechanical Perspective 234

Other RIT Programs in Art Careers

College of Fine and Applied Arts

Art Education

The program is designed as a means to obtain permanent certification to teach in New York State public schools or as concentration in the practice of the creative arts and crafts. Degree granted: M.S.T.

Ceramics/Ceramic Sculpture

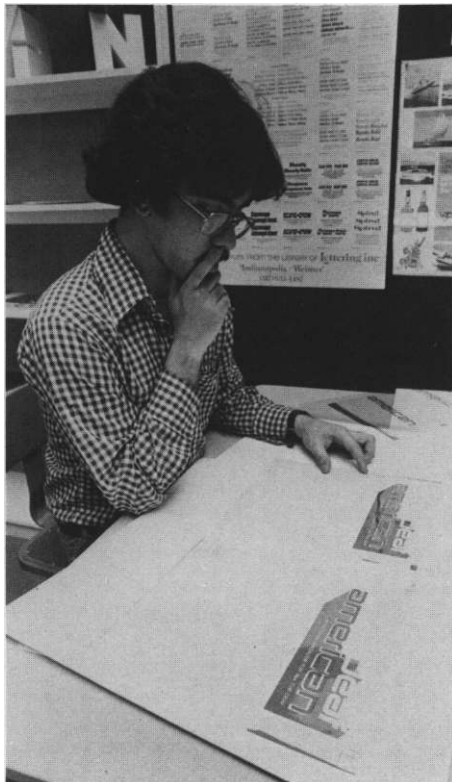
Graduates are self-employed as designer-craftsmen, designers or technicians in industry, and teachers or administrators of craft programs. Professional competencies are developed in such areas as fabrication, chemistry, and application of glazes, organization of a ceramic shop for efficient production, ceramic raw material, kiln types, fuels, and construction. Degrees granted: AAS., B.FA, M.FA, M.S.T.

Double Craft Major

The School for American Craftsmen offers a limited number of double craft majors. Requests for the double craft major are reviewed after the successful completion of two years of study in one major concentration. Degree granted: B.FA

Fine Arts

Students may concentrate in printmaking, painting, or medical illustration, and take other art electives. Graduates qualify as professional artists and for careers in teaching. Degrees granted: AAS., B.FA, M.FA, M.S.T.



Glass

Graduates are self-employed designer-craftsmen, designers or technicians in industry, and teachers or administrators of craft programs. Professional competencies are developed in organization and construction of the glass studio, function and care of tools, analysis of glass as a material, glass fabrication, glass design, cold-working techniques, mixing of batch glass, and color and fuming techniques. Degrees granted: AAS., B.FA, M.FA, M.S.T.

Graphic Design

The program prepares students to use design as a method for communicating thoughts, concepts, opinions, and information. Career fields include designing for industry, art agencies or studios, government, and social or non-profit organizations. Graduates can serve as creative members of problem-solving teams or prepare for teaching at the college or university level. Degrees granted: AAS., B.FA, M.FA, M.S.T.

Industrial and Interior Design

The program prepares students to design for social, industrial, and environmental use. The environmental designer works with interior and exterior space, product design, and exhibit design. Concern is given to future planning for human needs on all levels. Degrees granted: AAS., B.FA, M.FA, M.S.T.

Metal crafts and Jewelry

Graduates are self-employed designer-craftsmen, designers or technicians in industry, and teachers or administrators of craft programs. Professional competencies are developed in use of equipment; metal-crafts techniques and production in various metals; and raising, forging, forming, plainishing, enameling, and design of jewelry, flatware, and hollow ware. Degrees granted: AAS., B.FA, M.FA, M.S.T.

Weaving and Textile Design

Graduates are self-employed designer-craftsmen, designers or technicians in industry, and teachers or administrators of craft programs. Professional competencies are developed in such areas as fabric design, analysis of equipment and problems, pattern drafting, analysis of fibers, use of eight to 10 harness looms, power looms, techniques of weaving, and design within price range. Degrees granted: AAS., B.FA, M.FA, M.S.T.

Woodworking and Furniture Design

Graduates are self-employed designer-craftsmen, designers or technicians in industry, and teachers or administrators of craft programs. Professional competencies are developed in such areas as functions and care of woodworking tools, wood as material, techniques of wood fabrication, design, layout, construction analysis, veneering and finishing, estimating, and production. Degrees granted: AAS., B.FA, M.FA, M.S.T.

Photography Careers

People in photographic careers usually fit into two categories—people who take photographs and people who develop film and do other things in a photographic laboratory. Applied photography is a large support industry. It involves jobs such as developing film, making prints and slides, and enlarging photographs.

Students may choose certificate, diploma, and AAS. degree programs in Applied Photography at NTID.

Other RIT Programs

Other photography programs are available in the College of Graphic Arts and Photography The Visual Communication Support Department assists students cross registered in this college.



Pre-Technical Program: None

Applied Photography

On-the-job Responsibilities

Work in the darkroom and develop film, make prints and slides, enlarge photographs, and mount slides.

Places of Employment

Commercial and custom color labs, in-house industrial labs, and photofinishing labs.

Prerequisite

- Successful completion of a sampling experience in Applied Photography, either through the Summer Vestibule Program or a departmental sampling program

Certificate Program

Students concentrate on Mechanized Color Printing.

Graduates Qualify for These Positions

Paper processor operator, "S" printer operator, and BC-24 printer operator

Approximate Time: 3 quarters

Applied Photography: Certificate—NVCP (0821)

Typical Course Sequence

Fall Term

First Year

		Cr. Hrs.
0821-150	Introduction to Cameras	2
0821-151	Introduction to Film Processing	2
0821-152	Introduction to Photo Printing	4
0847-100	Dimensions of College Life	2
0840-100	Introduction to Communication	2
	English	4
	Physical Education	0
		16

Winter Term

		Cr. Hrs.
0821-170	Machine Printing I	8
0847-101	Job Search Process	1
	Communication	2
	English	4
	Physical Education	0
		15

Spring Term

		Cr. Hrs.
0821-171	Machine Printing II	8
0847-102	Life After College	1
	Communication	2
	English	4
	Physical Education	0
		15

Applied Photography

Diploma Program

Students concentrate in Custom Color Printing and Processing.

Graduates Qualify for These Positions

Custom color printer, color negative analyzer operator, custom copy camera operator, control strip reader/plotter, chemical mix person, roller transport processor operator, and dip and dunk processor operator

Approximate Time: 5 quarters

Applied Photography: Diploma—NVCP (0821)

Typical Course Sequence

Fall Term

First Year

		Cr. Hrs.
0821-150	Introduction to Cameras	2
0821-151	Introduction to Film Processing	2
0821-152	Introduction to Photo Printing	4
0847-100	Dimensions of College Life	2
0843-100	Introduction to Communication	2
	English	4
	Physical Education	0
		16

Second Year

0821-232	Custom Color Printing and Processing I	8
0847-101	Job Search Process	1
	Communication	2
	English	4
		15

Winter Term

		Cr. Hrs.
0821-153	Introduction to Copy Vferk	2
0821-154	Film Processing	2
0821-155	Black and White Printing	2
0821-156	Orientation to Photo/Media Careers	2
	Communication	2
	English	4
	Physical Education	0
		14

Spring Term

		Cr. Hrs.
0821-160	Basic Color Printing	4
0821-161	Mechanized Film Processing	2
0821-162	Print Finishing	2
	Communication	2
	English	4
	Physical Education	0
		14

AAS. Program

Students concentrate in Custom Color Process Control.

Graduates Qualify for These Positions

Custom color printer, color negative analyzer operator, custom color print inspector/evaluator, custom copy camera operator, control strip reader/plotter, chemical mix person, process control technician, custom color printer technician, custom copy technician, roller transport processor operator, and dip and dunk processor operator

Approximate Time: 8-9 quarters

Applied Photography: AA.S. Degree—NVCP (0821)

Typical Course Sequence

Fall Term

First Year

		Cr. Hrs.
0821-150	Introduction to Cameras	2
0821-151	Introduction to Film Processing	2
0821-152	Introduction to Photo Printing	4
0847-100	Dimensions of College Life	2
0843-100	Introduction to Communication	2
	English	4
	Physical Education	0
		16

Second Year

0821-232	Custom Color Printing and Processing I	8
0847-101	Job Search Process	1
	Liberal Arts	4
	Communication	2
	English	4
		19

Third Year

0821-235	Photographic Process Control II	8
	Liberal Arts	4
		12

Winter Term

		Cr. Hrs.
0821-153	Introduction to Copy Work	2
0821-154	Film Processing	2
0821-155	Black and White Printing	2
0821-156	Orientation to Photo/Media Careers	2
	Communication	2
	English	4
	Physical Education	0
		14

Spring Term

		Cr. Hrs.
0821-160	Basic Color Printing	4
0821-161	Mechanized Film Processing	2
0821-162	Print Finishing	2
	Communication	2
	English	4
	Physical Education	0
		14

0821-234	Photographic Process Control I	8
	Liberal Arts	4
		12

0821-233	Quality Control Applications	8
0847-102	Life After College	1
	Liberal Arts	4
		13

Other RIT Programs in Photography Careers

College of Graphic Arts and Photography

Biomedical Photographic Communications

This program prepares students for careers in media production, working with allied health teams in hospitals, medical and dental research centers, and other health institutions. Students can qualify for employment at the end of the second year and have the educational background necessary to apply for registration as a biological photographer. Degrees granted: AAS., B.S.

Film and Television

This program features an introduction to the disciplines of film and television with advanced work in either. The curriculum emphasizes production, and short periods of outside professional experience are encouraged, usually during the summer. The program is intended to acquaint students with film and television as creative media and to develop the skills of production. Degrees granted: AAS., B.S.

Imaging and Photographic Science

Students learn the application of physics, chemistry, and mathematics to photography; the materials and processes of photography; the application of photography; and the application of photographic processes to science and technology. Undergraduate course content is comparable to that of engineering programs—mathematics, physics, and chemistry of radiation-sensitive systems, optics, and image formation. The master of science program prepares students for higher level positions in the photographic industry or in the application of photography to problems of science and engineering. Degrees granted: AAS., B.S., M.S.

Photographic Processing and Finishing Management

Students develop a thorough knowledge of photographic processes, production techniques and procedures, and business, including aspects of promotion and selling in a competitive market. Degrees granted: AAS., B.S.

Photography

The master of fine arts program in photography emphasizes photography as an art form. It provides each student an opportunity to pursue graduate study in photography as a means to personal, aesthetic, intellectual, and career development. Three majors are available within the program; photography, film-making, and museum practice. Degree granted: M.F.A.



Professional Photographic Illustration

Students learn photographic skills to solve visual communication problems, leading to vocations in studio and mass media. Students develop innovative and individualized responses to visual problems, and are expected to become sensitive to contemporary graphic design. Degrees granted: AAS., B.FA

Technical Photography

This program prepares students for entry into a variety of positions in technical photography, as distinct from providing highly specialized training for specific positions. These include both picture-making positions (scientific photography, high-speed photography, technical illustration, audio-visual production, and photographic testing) and non-picture-making-positions (technical writing, quality control, technical representative, sales, product development and testing, applied research, laboratory supervision, and management). Degrees granted: AAS., B.S.

Media Production Careers

Students who like photography, films, and printing, or have some artistic talents, may enjoy a media production career. Students may choose diploma or AAS. degree programs in Media Production Technologies.

Other RIT Programs

Other media production programs are available in the College of Applied Science and Technology. The Visual Communication Support Department assists students cross registered in this college.

Pre-Technical Program: None

Media Production Technologies

Diploma and A.A.S. Degree

On-the-job Responsibilities

Make slides, photographic prints, motion pictures, transparencies, videotapes, and a variety of graphic materials, with the use of mechanical aids.

Places of Employment

Industrial training-sales departments, manufacturers of audiovisual materials, audiovisual producers, schools, and media labs.

Graduates Qualify for These Positions

Media copy technician, audiovisual equipment operator, media photo technician, media production photo assistant, media production aide, media graphics production technician, and slide production technician.

Prerequisite

- The first year of Applied Photography

Approximate Time:

6 quarters for diploma
9 quarters for AAS. degree

Media Production: Diploma—NVCM (0828)

Typical Course Sequence

Fall Term

First year

		Cr. Hrs.
0821-150	Introduction to Cameras	2
0821-151	Introduction to Film Processing	2
0821-152	Introduction to Photo Printing	4
0847-100	Dimensions of College Life	2
0843-100	Introduction to Communication English	2 4
	Physical Education	0
		16

Second year

0828-201	Duplicating Techniques	2
0828-205	Basic TV and Film Techniques	4
0847-101	Job Search Process Communication English	1 2 4
		13

Winter Term

		Cr. Hrs.
0821-153	Introduction to CopyWbrk	2
0821-154	Film Processing	2
0821-155	Black and White Printing	2
0821-156	Orientation to Photo/Media Careers	2
	Communication English	2 4
	Physical Education	0
		14

Spring Term

		Cr. Hrs.
0821-180	Media Photo I	3
0821-181	Media Graphics I	3
0821-182	AV Equipment Applications	2
	Communication English	2 4
	Physical Education	0
		14

Media Production: A.A.S. Degree—NVCM (0828)

Typical Course Sequence

Fall Term

First year

		Cr. Hrs.
0821-150	Introduction to Cameras	2
0821-151	Introduction to Film Processing	2
0821-152	Introduction to Photo Printing	4
0847-100	Dimensions of College Life	2
0843-100	Introduction to Communication English	2 4
	Physical Education	0
		16

Second year

0828-201	Duplicating Techniques	2
0828-205	Basic TV and Film Techniques	4
0847-101	Job Search Process Communication English	1 2 4
		13

Third year

0828-306	Media Practice and Comparison	4
0828-	•technical Elective* Liberal Arts	4 4
	Liberal Arts	0
		16

Winter Term

		Cr. Hrs.
0821-153	Introduction to CopyVtork	2
0821-154	Film Processing	2
0821-155	Black and White Printing	2
0821-156	Orientation to Photo/Media Careers	2
	Communication English	2 4
	Physical Education	0
		14

Spring Term

		Cr. Hrs.
0821-180	Media Photo I	3
0821-181	Media Graphics I	3
0821-182	m Equipment Applications	2
	Communication English	2 4
	Physical Education	0
		14
0828-302	AV Selection, Storage, and Acquisition	2
0828-	Technical Elective*	4
0828-	Technical Elective*	4
	Liberal Arts	0
		18

* Technical Electives—NVCM (0828)-300 Series

Other RIT Programs in Media Production Careers

College of Applied Science and Technology

Audiovisual Communications

This program prepares students with production/design abilities to use various media. Graduates become communications specialists, producers or production managers, or advisors to trainers and faculty members. Degree granted: B.S.

Instructional Technology

Graduates are employed in business, industry, educational institutions/community colleges, and the allied health fields. The RIT program offers three options: preparation as course developers and trainers in business and industry; preparation as instructional developers in higher education; and preparation as developers in health sciences. Degree granted: M.S.



Printing Careers

Printing is the process of transferring images to paper or other materials using ink. Books, magazines, newspapers, labels, and posters are a few examples of printing. Printing is one of the larger industries in the world, with a growing demand for skilled people to operate the many complex machines. Students are taught hands-on skills incorporating modern printing technology and machinery with the opportunity to specialize in two or more career fields in printing.

Students may choose certificate, diploma, or AAS. degree programs in Printing Production Technology at NTID.

The program offers individualized training in four areas of offset lithography: photo-composition and paste-up; camera; stripping and platemaking; and press and finishing.

Other RIT Programs

Other printing programs are available in the College of Graphic Arts and Photography. The Visual Communication Support Department assists students cross registered in this college.

Pre-Technical Program: None

Printing Production Technology

Certificate, Diploma, and AA.S. Degree Programs

On-the-job Responsibilities

Operate computer typesetters, prepare mechanical art, make film originals, operate process cameras, operate photo processing equipment, strip films, make plates, and operate offset presses and bindery finishing machines.

Places of Employment

In-plant print shops, commercial printing plants, newspapers, book and magazine printers, and U.S. government printing facilities

Graduates Qualify for These Positions

Camera operator, paste-up artist, photolettering machine operator, keyboard operator, phototypesetter operator, black and white stripper, spot color stripper, process color stripper, platemaker, duplicator operator, small press operator, and bindery/finishing person

Prerequisite:

- Successful completion of a sampling experience in Printing Production Technology, either through the Summer Vestibule Program or a departmental sampling program

Approximate Time:

5 quarters for certificate
8 quarters for diploma
9 quarters for AAS. degree



Printing Production Technology: Certificate—NVCR (0822)

Students must complete a Level I course from each of the four areas of offset lithography and Integrated Printing Lab I.

Typical Course Sequence

Fall Term

Winter Term

Spring Term

First Year

		Cr. Hrs.			Cr. Hrs.			Cr. Hrs.
0822-	Level I Printing	5	0822-	Level I Printing	5	0822-	Level I Printing	5
0817-120	Basic Mathematics	3		General Education	2		Elective	2
0847-100	Dimensions of College Life	2		Communication	2		General Education	2
	Communication	2		English	4		Communication	2
	English	4		Physical Education	0		English	4
	Physical Education	0			15		Physical Education	0
		16						15

Second Year

0822-	Level I Printing	5	0822-	Level I Printing	5
0847-101	Job Search Process	1	0822-170	Integrated Printing Lab I	2
	General Education	2	0847-102	Life After College	1
	Communication	2		Communication	2
	English	4		English	4
		14			14

Printing Production Technology: Diploma—NVCR (0822)

Students must complete a Level I course from each of the four areas of offset lithography; Level II and Level III courses from two of the four areas; and Integrated Printing Lab I, II, and III. In addition, a work experience is required the second summer in the program.

Typical Course Sequence

Fall Term

Winter Term

Spring Term

First Year

		Cr. Hrs.			Cr. Hrs.			Cr. Hrs.
0822-	Level I Printing	5	0822-	Level I Printing	5	0822-	Level I Printing	5
0817-120	Basic Mathematics	3		Elective	2		Elective	2
0847-100	Dimensions of College Life	2		General Education	2		General Education	2
	Communication	2		Communication	2		Communication	2
	English	4		English	4		English	4
	Physical Education	0		Physical Education	0		Physical Education	0
		16			15			15

Second Year

0822-	Level I Printing	5	0822-	Level I Printing	5	0822-	Level II Printing	5
	Elective	2		Elective	2	0822-	Level III Printing	5
0847-101	Job Search Process	1	0822-170	Integrated Printing Labi	2	0822-269	Integrated Printing Lab II	2
	Communication	2		General Education	2		Elective	2
	English	4		Communication	2			14
		14			13			

Summer

Co-op Work Experience (10 Weeks)

Third Year

0822-	Level II Printing	5	0822-	Level II Printing	5
0822-	Level III Printing	5	0822-	Level III Printing	5
0822-270	Integrated Printing Lab III	2	0847-102	Life After College	1
	General Education	2		Communication	2
		14			13

Printing Production Technology: AA.S. Degree—NVCR (0822)

Students must complete a Level I course from each of the four areas of offset lithography; Level II and Level III courses from two of the four areas; Integrated Printing Lab I, II, III, and IV; nine additional printing credits; and five Liberal Arts courses.

Typical Course Sequence

Fall Term		Winter Term		Spring Term	
First Year					
	Cr. Hrs.		Cr. Hrs.		Cr. Hrs.
0822-	Level I Printing	5	0822-	Level I Printing	5
0817-120	Basic Mathematics	3		Elective	2
0847-100	Dimensions of College Life	2		General Education	2
	Communication	2		Communication	2
	English	4		English	4
	Physical Education	0		Physical Education	0
		<u>16</u>			<u>15</u>
Second Year					
0822-	Level I Printing	5	0822-	Level I Printing	5
0847-101	Job Search Process	1		Elective	2
	Elective	2		Liberal Arts	4
	Communication	2		Communication	2
	English	4			<u>13</u>
		<u>14</u>		0822-	Level II Printing
				0822-	Level III Printing
				0822-170	Integrated Printing Lab I
					2
				Liberal Arts	4
					<u>16</u>
Summer					
Co-op Work Experience (10 Weeks)					
Third Year					
0822-	Level II Printing	5	0822-	Level III Printing	5
0822-269	Integrated Printing Lab II	2	0822-270	Integrated Printing Lab III	2
0822-	Printing Elective	3	0822-	Printing Elective	3
	Liberal Arts	4		Elective	2
	Communication	2		Liberal Arts	4
		<u>16</u>			<u>16</u>
				0822-271	Integrated Printing Lab IV
					2
				0822-	Printing Elective
				0847-102	Life After College
					1
				Elective	2
				Liberal Arts	4
					<u>12</u>

Other RIT Programs in Printing Careers

College of Graphic Arts and Photography

Newspaper Production Management

This program prepares students for careers in technical management for the newspaper industry by developing an appreciation of tactics and strategies for evaluating and controlling production problems. It incorporates engineering approaches to problem solving. Degree granted: B.S.

Printing

This program prepares students for careers in printing production management by developing an appreciation of aesthetic qualities of good printing and application of science and engineering in graphic arts. Theory and practice in management and communication skills are taught. Degrees granted: A.A.S., B.S.

Printing and Applied Computer Science

This program prepares students for entry positions in printing systems analysis, production control, engineering liaison, customer engineering, marketing support, process engineering, and production design. These lead to positions as production managers, directors of computer technology, and operations managers. Degree granted: B.S.

Printing Systems Management

This program prepares students for careers that emphasize measurement and control techniques, problem solving, and optimization of operating conditions in the industrial technological environment in the printing industry. Degree granted: B.S.

Printing Technology and Printing Education

The master of science program in printing is a professional program designed to provide graduate education in printing for students whose undergraduate majors were in the arts, sciences, education, or other non-printing areas, as well as for graduates with a major in printing. Students may concentrate in either printing technology or printing education. Degrees granted: M.S., M.S.T.

Interpreting for the Hearing Impaired

A.A.S. Degree Program

On-the-job Responsibilities

Provision of interpreting and other educational support services programs to hearing-impaired and deaf persons, primarily in educational settings, but also in other settings where such services are needed.

Places of Employment

Elementary, secondary, and postsecondary educational institutions; community service organizations; and vocational rehabilitation agencies

Special Entrance Requirements

High school diploma or equivalent; basic simultaneous communication competence.

A pre-AAS. program may be required of some students depending on skill level at application. It includes Basic Sign Language I, II, and/or III, and is offered before the Fall Quarter of entrance.

This plan is for a typical entering freshman who has basic sign language competency. It requires two years to complete. Some courses are repeated to allow students to enter during Winter or Spring Quarter and allow some flexibility in scheduling. Students should check with the department for prerequisites.

Approximate Time:

6 quarters; may be taken over a three-year period



Interpreting for the Hearing Impaired: A.A.S. Degree—NITP (0850)

Typical Course Sequence

Fall Term		Winter Term		Spring Term	
First Year					
	Cr. Hrs.		Cr. Hrs.		Cr. Hrs.
0850-203	Principles of American Sign Language	3	0850-204	American Sign Language Interpreting I	3
0850-210	Fingerspelling and Number Comprehension	3	0850-211	Voice Interpreting I	3
0850-251	Aspects and Issues of Deafness	3	0850-262	Theory and Practice of Interpreting II	3
0850-261	Theory and Practice of Interpreting	3	0504-332	Literature*	4
0502-220	English Composition*	4	0502-520	College Vocabulary Skills	4
	Physical Education*	0		Physical Education*	0
		16			15
Summer Term (optional)					
0850-281	Interpreting Practicum I	5			
0850-283	Interpreting Practicum Seminar I	1			
0850-392	Tutoring/Notetaking Practicum	3			
Second Year					
0850-212	Voice Interpreting II	3	0850-213	Voice Interpreting III	3
0850-281	Interpreting Practicum I	5	0850-396	Support Service Professional	3
0850-283	Interpreting Practicum Seminar I	1		Liberal Arts/Social Science Electives* (two)	8
0850-332	Expressive Transliterating II	3		Contemporary Science* J	18
0850-392	Tutoring/Notetaking Practicum*	3			
0850-343	Expressive Oral Transliterating	3			
		18			16

*Courses can be taken in another quarter. 0850-399 (Independent Study) is available any quarter.

Communication Development

Communication skills are critical for success in college, on the job, and in the community. NTID recognizes the need for good communication and has established services covering all types of communication. Instruction and related services are provided in reading, writing, use of residual hearing, speechreading, speaking, and manual/simultaneous communication.

Students are assigned to a Communication Instruction Department by their English skills. In each course, materials are appropriate for the student's own English language level.

Required Course

Introduction to Communication (0843-100) is required of all students initially assigned to Communication Instruction Department III. This course should be taken during the student's first quarter at NTID.

Required Courses Based on Need

English language courses (0841, 0842, 0843, and 0844-180 to 199) are required based on need. These courses are designed for students who do not demonstrate basic proficiency in reading and writing. To complete this English language requirement, a student can: (1) demonstrate basic English proficiency in reading and writing; (2) complete five quarters of English language courses with passing grades; or (3) complete three quarters of English language courses with passing grades but without showing significant progress. Students who have completed the requirements may take additional English language courses as electives.

Required Courses Based on Communication Assessment and Advising

Five additional communication courses are required of all NTID students. Students plan for these courses with their communication advisors. The five courses that a student takes depend on his/her communication skills and personal career development goals. A student should take one course focusing on overall communicative competency (0841, 0842, 0843, or 0844-101 to 119), one course in the improvement of speaking skills (0841, 0842, 0843, or 0844-120 to 139), two courses in the improvement of receptive aural-oral skills (0840, 0841, 0842, 0843, or 0844-140 to 159), and one course focusing on the improvement of manual/simultaneous communication or skills supplementary to English language usage (0841, 0842, 0843, or 0844-160 to 179). Additional courses in each of these areas may be taken as electives.

Communication Learning Centers

The Communication Program has several learning centers. Students and staff work in the Self-Instruction Lab to practice skills they have learned recently in listening, speaking, and manual/simultaneous communication. Assignments in the Reading and Writing Lab help students use their reading and writing skills independently. Students practice using telephone equipment in the Telecommunication Lab. Lab assignments are only one part of a communication course. The other parts of a course include working directly with the instructor in small groups or individually, and homework assignments.



General Education

Learning at RIT means more than gaining technical skills. Students need to develop personal/social skills and to understand and appreciate their culture. These skills allow students to enrich their lives and prepare for career changes.

There are many courses and experiences to help students learn more about themselves and the world around them.

At RIT, students gain experiences that will help them to:

- develop a better understanding of American and world cultures
- develop a better understanding of their own values and the impact of these values on their attitudes and behaviors
- develop independent learning skills
- develop ability for self-direction, lifelong learning, and personal fulfillment
- become socially skilled in their relationships with others and the environment
- develop a better understanding of and appreciation for aesthetics
- accept responsibility for their actions
- augment reading and writing skills

General Education courses

The Division of General Education at NTID offers a variety of courses. These courses are separate from the courses in the College of Liberal Arts. General Education courses provide students with important personal and social skills needed to function successfully as college students, future employees or employers, and community citizens.

Students may choose courses that help them make decisions about their careers, develop an appreciation for differences among people, and learn about the heritage of deaf people. There are courses to help students learn how to study, how to develop leadership skills, and how to manage their finances. There also are courses in theatre, music instruction, dance, history, community service, basic human sexuality, and practical law for daily use.

Required Courses

Students are required to take three General Education courses:

Dimensions of College Life

(0847-100) helps students adjust to college life and generally is taken during the first or second quarter at NTID.

The Job Search Process

(0847-101) teaches students many skills they need in finding a job.

Life After College

(0847-102) is taken just before graduation and provides students with information they need to function both on and off the job.



Performing Arts

The Department of Performing Arts, which includes the NTID Theatre, offers training and experiences in theatre, music, and dance. Students may take courses in many aspects of theatre, including acting and stage production. Deaf and hearing students also perform in drama productions as actors, dancers, and musicians, and gain experience in makeup, costumes, set, and lighting design.

Many students play in musical groups or join the Signing-Singing Chorus. A dance program brings together students who are interested in classes and performance. An outreach program, Sunshine Too, offers graduates an opportunity to practice their skills across the country with a variety of audiences.

KIT's College of Liberal Arts

Students enrolled in AAS. or B.S. degree programs take required courses in language and literature, social sciences, and science and humanities in the College of Liberal Arts. They can choose between course sections taught by NTID Liberal Arts Support faculty, or course sections taught by RIT College of Liberal Arts faculty, with support services provided by the NTID Liberal Arts Support Department.

Liberal Arts courses taught by NTID faculty are sections of College of Liberal Arts courses for NTID students. The faculty use simultaneous communication and provide students with additional study guides and materials, so that interpreters and notetakers are not needed.

Liberal Arts courses taught by RIT faculty include both deaf and hearing students, and are taught by College of Liberal Arts faculty. Support services (see page 62) are provided by the NTID Liberal Arts Support Department. These include interpreting, notetaking, and tutoring. Students are encouraged to have a communication E-score of 32 or higher before taking sections of English Composition and other Liberal Arts courses taught by the College of Liberal Arts faculty. However, ultimately it is the student's decision.

First Liberal Arts course

The first Liberal Arts course that must be taken is English Composition (0502-220). Students must complete this course with a passing grade before they can register for any other Liberal Arts course. Before students take English Composition, they should have a minimum Michigan Test score of 70 (level 4), should have passed their NTID English requirements, and should have passed the English Composition Placement Test with a score of 10 or greater.

Students seeking an AAS. degree through NTID are required to take five lower division Liberal Arts courses: English Composition, Literature, two Social Science courses, and one Science and Humanities course.

Liberal Arts courses offered by NTID

Faculty include:

Language and Literature

Deaf Characters in Fiction and Film
Creative Interpretation in Sign
Contemporary American Novel
World Literature
English Composition
Interpreting Literature in Sign Language
Shakespeare: Tragedy
Shakespeare: Comedy and History
Great World Drama

Social Sciences

Introduction to Psychology
General Sociology

Science and Humanities

History: Modern American

Students cross registered in programs in colleges other than NTID should consult with their major department for information about required Liberal Arts courses.

The Liberal Arts Curriculum

The curriculum of study in the humanities and social sciences that all RIT students pursue in the College of Liberal Arts may be understood by examining the following description. Students in the various RIT associate and baccalaureate degree programs will complete this entire Liberal Arts curriculum, or a modification of it, as applicable to their particular degree program. Faculty academic advisors in the College of Liberal Arts and in the other colleges of the Institute will assist students in interpreting the Liberal Arts curriculum as it applies to their particular degree program. The curriculum consists of 14 courses (54 quarter credits) arranged in five groups:

1. English Composition
2. A core curriculum of six foundation courses in the humanities and social studies
3. A disciplinary or interdisciplinary concentration of three advanced courses
4. Three advanced electives
5. The Liberal Arts Senior Seminar and Project.

All are four-credit courses except the Liberal Arts Senior Seminar and Project, which is a two-credit course.

Courses

The courses of the curriculum are taught in disciplinary areas as well as in interdisciplinary fields of study.



Concentrations

A concentration is a group of closely related advanced courses from which the student chooses three. The student's liberal/general education is enhanced by such concentrations in the following ways:

1. Students achieve greater depth in learning because they have, where necessary, taken the prerequisites for these courses and because they benefit from the accumulated depth of the three-course concentrations themselves.
2. They achieve a kind of "minor" in an area of liberal education.
3. They are able to see cohesion among at least three of their advanced courses.
4. They are able to build on and to link new learning to their core courses.
5. They can develop more judgment and understanding in an area of the RIT or college goals.

Concentrations are pursued in the third, fourth, or fifth year of the baccalaureate programs and can take either of the following forms:

1. Disciplinary Concentrations: three related courses in a single discipline leading to an in-depth knowledge of the methods, problems, and achievements of that mode of inquiry.
2. Interdisciplinary concentrations:
 - a. three interdisciplinary courses on a single broad theme or topic;
 - b. three related courses from different disciplines, each of which speaks to some aspect of a common area, subject, or topic;
 - c. a mixture of a and b.



A concentration is comprised of three courses chosen from the four to six courses that make up the concentration. The limited number of courses qualifying for the concentration increases the frequency with which they will be offered and the flexibility students will have in scheduling and registration. Some courses may qualify for several different concentrations. This will enable students to have flexibility in changing concentrations.

The Liberal Arts concentrations available to RIT baccalaureate students are:

Disciplinary Concentrations

Prerequisites and the specific courses qualifying for each of the following disciplinary concentrations will be determined by the Liberal Arts academic committees responsible for these areas of study. In each case, students choose three of the four to six courses that qualify for the concentration.

Communications
Economics
Fine Arts
History
Literature
Philosophy
Political Science
Psychology
Sociology/Anthropology

Interdisciplinary Concentrations

A number of interdisciplinary concentrations will be clustered around the goals of the Institute and the college. These concentrations involve in-depth study of a topic or area believed to represent an important realm of interdisciplinary learning for educated persons. Each of these interdisciplinary concentrations consists of four to six courses, from which the student chooses three. The specific courses composing each concentration will be formulated by faculty collaborating with one another so that the courses of the concentration are closely related. For example, there may be interdisciplinary concentrations in the following general areas related to the college goals, as well as in other areas now in the process of development:

- Aesthetic Values
- Western Heritage
- Influences on the Present and Future
- Interrelationship with Other Cultures
- Human Dynamics
- Ethical Wues
- Science, Technology, and Society

Interdisciplinary concentrations also may be developed in Women's Studies, Contemporary International Issues, Arts and the Environment, Religious Studies, The Ancient World, Future Studies, and Non-Western Civilizations.

Electives

The opportunity to choose three elective courses provides students with an element of choice in planning their Liberal Arts program. Electives may be chosen from among core courses not previously taken, or concentration courses for which the student has the proper prerequisites, as well as from those courses designated "elective!"

Liberal Arts Senior Seminar and Project

The purposes of the Senior Seminar and Project are:

- to give senior students the opportunity to prepare theses or projects that call for analysis and synthesis, and for the application of their Liberal Arts experiences to major issues that may affect their professional careers;
- to provide seminars for all senior students on a general theme related to their required thesis or project;
- to provide an advanced experience of problem solving and value clarification.

The Senior Seminar will be designed and implemented on an annual basis by a Seminar Committee of faculty selected a year in advance by the dean and staff chairpersons. The main focus of the Senior Seminar will be the formulation and direction of the senior theses or projects. In support of this, the Seminar Committee may plan in advance a general theme for each academic year, and may choose related common texts to be read by students in the Seminar. Major lectures on topics related to the theme also may be scheduled.

The course will last one quarter and can be taken anytime during the senior year.

Selected faculty of the various colleges of the Institute may be invited to participate as consultants in the seminars.

Human Services Careers

Students who feel that it is important to help people live better lives may be interested in human services careers. Bachelor of science degrees in Social Work and Criminal Justice are available through cross registration into the School of Human Services in the College of Liberal Arts. Cross-registered students receive educational support from the Human Services Support Department.

Bachelor of Science in Social Work

RIT's Social Work program is fully accredited by the Council on Social Work Education. The four-year program requires excellent reading and language skills. In addition, students should have strong personal and social skills, a commitment to working with people, and well-thought-out reasons for this career choice. Graduates can begin social work careers immediately or continue their studies at other schools with master's degree programs.

Bachelor of Science in Criminal Justice

RIT's Criminal Justice program prepares graduates for entrance into the many careers within the criminal justice system and the public and private security sectors. The program also provides continuing education for those already pursuing professional criminal justice or security careers.

Courses needed for a bachelor's degree in Criminal Justice can be found in the RIT Official Bulletin.

Athletics and Physical Education

Learning experiences provided through the Physical Education curriculum are an integral part of the total educational experiences and student life activities at RIT. The program consists of an array of courses developed to meet the growing needs of students. The focus of the curriculum is to help students develop and maintain fitness, to acquire physical skills in a variety of lifetime activities, and to provide principles and elements for utilizing free time in an enjoyable and constructive manner.

Required courses at RIT are built on the premise that good health and fitness are basic elements in the "pursuit of excel-



On-the-job Responsibilities

Assist individuals, families, and groups to solve their social problems in a variety of ways; help clients develop independent living skills; treat mental health patients; rehabilitate drug and alcohol abusers; work with delinquents and ex-offenders; and provide vocational rehabilitation.

Places of Employment

Community service agencies, rehabilitation centers, schools, mental health facilities, alcohol/drug abuse programs, government agencies, and advocacy organizations.

Courses needed for the bachelor's degree in Social Work can be found in the RIT Official Bulletin.

ence" in many aspects of RIT campus life.

The Department of Physical Education offers an Adapted Physical Education Program for handicapped students. The program consists of developmental activities suited to the needs, interests, and capabilities of students with disabilities who may not be able to participate safely in the general physical education programs. Various recreational programs also are offered to the handicapped population in selected individual, dual, and team activities. Additional information in regard to these programs can be obtained from the Physical Education Department.

The curriculum is offered during all academic quarters, including the summer. Registration for classes is conducted at designated times following academic registration.

Requirements for Degrees

For the Associate Degree

All candidates for the associate degree enrolled through the day colleges are required to complete successfully three quarters or the equivalent of one year, of physical education. This requirement is normally met during the first year of matriculation, but may be done at any time.

For the Baccalaureate Degree

All candidates for the baccalaureate degree enrolled through the day colleges must complete successfully six quarters, or the equivalent of two years, of physical education. This requirement is normally met during the first and second years of matriculation, but may be done at any time.

Transfer Students

All students who transfer to RIT from any other college or university also must comply with the physical education requirements for the associate or baccalaureate degree, either at RIT or as transferrable credit.

Transfer students who have earned an associate degree from another institution, and who are required to complete a work-study assignment, are required to complete only three quarters, or the equivalent of one year, of physical education at RIT.

Available Courses

Aerobic Dancing	Jazz
Aquathenics	Jogging
(Water Aerobics)	Judo
Archery	Juggling
Army Conditioning	Karate
Drills	Kung Fu
Badminton	Lacrosse
Ballet	Life Saving
Ballroom Dance	Modern Dance
Basketball	Movement
Basketball	Composition
Officiating	Orienteering
Bicycling	(R.O.T.C)
Billiards	Outdoor Experiential
Bowling	Education
Canoeing	Racquetball
Canoeing (Adapted)	"Red Barn" Ropes
CPR—Multi-Media	Rock Climbing
Aid	Rock & Roll, Disco,
Care and Prevention	Jitterbug Dancing
of Athletic Injuries	R.O.T.C. Rangers
Conditioning	Sailing
Cross-Country Skiing	Scuba Diving
Dance Performance	(Beginning)
land II	Scuba Diving
Diving	(Advanced)
Emergency Medical	Self Defense for
Technician	Women
Training	Sign Dance
Fencing	Skeet and Trap
Field Hockey	(Beginning)
Fishing	Skeet and Trap
Fitness for Life	(Advanced)
Frisbee	Skiing (Downhill)
Golf	Soccer
Health/Mind-Body	Softball
Connection	Swimming
(Wellness)	Swimming for
Horseback Riding	Fitness
(English)	Tennis
Horseback Riding	Volleyball
(Western)	Water Polo
Hunting	Water Safety
Hunting (Predator)	Instruction
Ice Fishing	Weight Training
Ice Hockey	Yoga
Ice Skating	

ACADEMIC SUPPORT SERVICES

Classroom Assistance

NTID provides support services (interpreting, tutoring, notetaking, counseling, and advising) to all NTID students cross registered in RIT's other eight colleges. These support services enable hearing-impaired learners to function successfully in a mainstreamed environment.

Classes

A typical class is made up of an instructor; an interpreter (total communicator, oral, signed English, or ASL) as requested by the user; a notetaker; and hearing and hearing-impaired students.

Interpreters

Students may ask for interpreters if they are taking courses in RIT colleges other than NTID. The use of interpreters allows students more participation in class lectures and discussions than would be possible otherwise. The interpreter communicates, either in sign language or orally, what others say. If necessary, interpreters voice for deaf students. Interpreting services also are provided for student activities, personal services, instructional television, religious services, theatre, sports, conventions, and cultural events. Students also use interpreting services for telephone calls and crisis situations.

Tutors/Notetakers

Students taking courses in RIT colleges other than NTID may request the services of trained tutor/notetakers. Usually, a hearing student who has been trained and already has taken the class is assigned to take notes. Trained students may tutor NTID students where appropriate. Other hearing students occasionally volunteer to take notes for NTID classmates. Professional staff members also may serve as notetakers or tutors in situations requiring a professional. Notetakers in the class allow deaf students to watch the interpreter or teacher while the notetaker writes down information. Students also are encouraged to take their own notes as much as possible. The tutor/notetaker is available after class to help with studying, and is encouraged to work closely with the teacher and the deaf student.



Support Services

Each RIT college has an NTID Department of Support Services. These resource personnel provide educational support services to cross-registered deaf students. These services may include:

- Offering workshops, seminars, and courses on study skills, co-op, and employment preparation, communication, and college issues
- Providing personal counseling to hearing-impaired students
- Maintaining liaison with faculty members of other RIT colleges
- Preparing NTID students for cross registration into programs at other RIT colleges
- Providing interpreting, notetaking, tutoring, and other needed support services
- Teaching courses using total communication and other instructional techniques that maximize students' learning
- Working with employment specialists and employers to provide career advisement to students seeking employment
- Helping hearing-impaired students assess their communication needs in the classroom, e.g., using an FM auditory unit, using speech skills for critiques or class participation, or using interpreters to voice ideas.

The following chart shows how students may begin in an NTID program and later cross register or matriculate into another RIT college with support.

**THE TECHNICAL AND PROFESSIONAL
EDUCATION PROGRAMS OF NTID**

Leading to: Certificate, Diploma, or
Associate Degree)

THE TECHNICAL AND PROFESSIONAL, EDUCATION PROGRAMS OF THE OTHER COLLEGES OF RIT (Leading to
Associate, Bachelor's, or Master's Degrees Through Cross Registration into Other RIT colleges; NTID provides interpreters, tutors,
and notetakers for any student who requests them.)

NTID Programs	Other RIT Colleges	Other RIT Programs
Business <ul style="list-style-type: none"> Applied Accounting Business Occupations Data Processing Office Practice and Procedures 	College of Business	<ul style="list-style-type: none"> Accounting Business Administration Business Administration—Accounting Business Administration—Information Systems Photographic Marketing Management Retailing
Applied Science/Allied Health <ul style="list-style-type: none"> Histologic Assistant Medical Laboratory Technology Medical Record Technology Optical Finishing Technology 	College of Applied Science and Technology	<ul style="list-style-type: none"> Computer Science Computer Systems Management Computer Information Systems Food Service Administration General Dietetics and Nutritional Care Information Science
Engineering Technologies Construction Technologies <ul style="list-style-type: none"> Architectural Drafting Architectural Technology Civil Technology Electromechanical Technology <ul style="list-style-type: none"> Electromechanical Technology Industrial Drafting Technologies <ul style="list-style-type: none"> Industrial Drafting Industrial Drafting Technology Manufacturing Processes 	College of Engineering	<ul style="list-style-type: none"> Applied Mathematics Applied Statistics Biology Biomedical Computing Biotechnology Chemistry Clinical Chemistry Computer Engineering Electrical Engineering Industrial Engineering Mechanical Engineering Microelectronic Engineering
Visual Communications <ul style="list-style-type: none"> Applied Art 	College of Fine and Applied Arts	<ul style="list-style-type: none"> Civil Engineering Technology (Environmental or Construction) Computer Technology Electrical Engineering Technology Energy Engineering Technology Manufacturing Engineering Technology Mechanical Engineering Technology Packaging Science
<ul style="list-style-type: none"> Applied Photography Media Production Technology Printing Production Technology 	College of Graphic Arts and Photography	<ul style="list-style-type: none"> Art Education Ceramics/Ceramic Sculpture Computer Graphics Design Double Craft Major Fine Arts (Painting, Printmaking, Medical Illustration) Glass Graphic Design Industrial and Interior Design Metalcrafts and Jewelry Packaging Science-Design Vietving and Textile Design Vlbodworking and Furniture Design
General Education (Programs available through cross registration into the RIT College of Liberal Arts)	College of Liberal Arts	<ul style="list-style-type: none"> Biomedical Photographic Communications Film and Television Imaging and Photographic Science Newspaper Production Management Photographic Processing and Finishing Management Photography Professional Photographic Illustration Printing Printing and Applied Computer Science Printing Education Printing Systems Management Printing Technology Technical Photography
	College of Applied Science and Technology	<ul style="list-style-type: none"> Audiovisual Communications Instructional Technology
	College of Applied Liberal Arts	<ul style="list-style-type: none"> Criminal Justice Social Work
	College of Applied Science and Technology	<ul style="list-style-type: none"> Career and Human Resource Development
	College of Business	<ul style="list-style-type: none"> Human Services Management
Educational Support Services Training <ul style="list-style-type: none"> Interpreting for the Hearing Impaired 		

Counseling Services

Counseling means trying to help students solve problems. NTID at RIT offers students a variety of counseling services.

Career Development Counseling

Career Development counselors help students with problems such as how to get along better with people, how to adjust to college life, how to gain more self-confidence, and what program of study to choose.

NTID counselors have training in counseling theory and techniques, career development, communication, and deafness.

Every NTID-sponsored student has a personal/career counselor. Counselors and program faculty members help students plan their educational programs. Counselors are available to talk with students about personal and social problems. They work with students in many ways, including:

- *Individual counseling sessions.* Students make an appointment to talk with a counselor about academic or personal problems.
- *Career planning seminars.* Groups of students (especially new students) meet with a counselor to make decisions about programs of study and possible careers. Adjustment to college life, values clarification, and understanding of abilities and interests are examples of topics discussed in these seminars.
- *Special groups.* Students can talk together about things that bother them, with counselors leading the discussion. Topics may include communicating, getting along with people, choosing a program of study, coping with stress, or improving interpersonal relationships.
- *Assessment.* Various interest, aptitude, and achievement tests are administered and interpreted to students.
- *Consultation.* Counselors help faculty to understand the academic and personal/social development needs of students.

Psychological Services

Mental health counseling and preventive mental health programming are provided for hearing-impaired students at RIT by the Department of Psychological Services.

Mental health counselors and a clinical psychologist provide students with psychological assessment/evaluation; psychiatric consultation; and individual or group counseling. Students may request these services or be referred. In addition, students are offered preventive outreach programs such as workshops and discussion groups that encourage mental health awareness. Examples of some of the concerns students may ask for help in resolving are: depression, adjustment to deafness, family conflicts, stress, male/female relationship problems, roommate conflicts, and sexual identity issues.

Consultation with other faculty and staff members working with hearing-impaired students at the Institute also is provided. With this process, students with personal/social problems that directly affect their academic performance are given an opportunity to meet with various faculty and staff members to develop a remedial program that emphasizes their academic as well as personal needs.

Staff members work closely with the RIT Counseling Center and the RIT Office of Residence Life to provide mental health services to all hearing-impaired students through education, training, and referral.

In-service programming in the areas of mental health and psychosocial development also is provided to faculty, staff, and where possible, to local mental health agencies serving deaf clients.

A 24-hour crisis intervention service also is monitored by department staff members. Students experiencing emotional crises may request the help of a mental health counselor **at any time.**

Learning Centers

Learning centers provide specialized academic support for students.

Communication Learning Centers

The Communication Program has several learning centers. Students and staff work in the Self-Instruction Lab to practice skills they have learned recently in listening, speaking, and manual/simultaneous communication. Assignments in the Reading and Writing labs help students use their reading and writing skills independently. Students practice using telephone equipment in the Telecommunication Lab. Lab assignments are only one part of a communication course. The other parts of a course include working directly with the instructor in small groups or individually, and homework assignments.

General Education Resource Center

The General Education Resource Center (GERC) supports students enrolled in courses offered through the College of Liberal Arts, Academic Department of Human Development, and the College of Continuing Education. The GERC is located in Peter N. Peterson Hall. It is a living/learning environment with a staff of professionals and students.

Tutoring is provided in social sciences, language and literature, and science and humanities. Formal courses are not offered. However, group instruction and special programs can take place in the Center. Resource materials available through the GERC include reference texts, leisure reading materials, and videotape equipment.

Joint Science Learning Center

The Joint Science Learning Center (JSLC) was developed by the College of Science and its NTID support department. It serves both hearing and deaf students. The JSLC is different from all other learning centers.

The JSLC is a resource area where College of Science faculty members place materials for students to use as a supplement to classroom activities. Pre and post-lab slides, solutions to homework assignments, filmstrips, models, and additional reference texts are available in the JSLC.

The JSLC is monitored by hearing and deaf science majors under the guidance of members of the Science and Engineering Support Department.

Mathematics Learning Center

The Mathematics Learning Center (MLC) helps students complete required courses for specific careers.

The MLC lets students learn at their own speed. Teachers are available in the MLC to help students who are having problems. In addition, several small group classes in various courses are offered each quarter for students who need or want the structure of a classroom experience.

The materials used in the MLC are called study modules. A module is like a chapter from a textbook, and is written in language students can understand easily

Students are allowed one quarter (10 weeks) to complete a course. If students can complete courses in less time, they can go on to another course.

There are two types of courses: preparatory and regular. Preparatory courses prepare students to enter a career program or higher level course. Regular courses are required for each specific program of study.

Physics Learning Center

The Physics Learning Center (PLC) offers a variety of courses in physics. Students enrolled in engineering, applied science, and other NTID technical programs use the PLC. The PLC also helps NTID students who are cross registered in one of RIT's other colleges. These courses assist students who will enroll in upper division courses offered by the Colleges of Science and Engineering. Courses are offered as needed, depending on student enrollment.

Courses Taught in the Mathematics and Physics Learning Centers

Pre-Technical Mathematics

These courses prepare students to enroll in certain Business, Applied Science/Allied Health, and Engineering Technologies programs.

NTMM 120	Basic Mathematics
NTMM 122, 123	Algebra IA, IB
NTMM 124	Geometry
NTMM 126, 127	Algebra IIA, IIB
NTMM 128	Trigonometry

Technical Mathematics

These courses are offered to students enrolled in selected programs of study.

NTMM 104	Business Mathematics
NTMM 105	Office Procedures Mathematics
NTMM 109	Medical Records Statistics
NTMM 163	Mathematics for Data Processing
NTMM 170	Medical Laboratory Mathematics
NTMM 201, 202, 203	College Algebra, Trigonometry, and Analytic Geometry

Physics

These courses provide specialized skills for students preparing for programs at NTID and the other colleges of RIT.

NTSP 100,135, 136,137	Technical Physics I, II, III, IV
NTSP 125,126	Construction Technology Physics II, III
NTSP 165,166	Optical Finishing Physics I, II
NTSP 399	Independent Study—Physics



Instructional Design and Technical Services

The Division of Instructional Design and Technical Services applies principles of learning theory and instructional systems development to create educational course materials for hearing-impaired people both at NTID and throughout the United States.

Media Production

The Media Production Department provides complete photographic and graphic services; develops instructional products designed specifically for the deaf learner; trains faculty and provides them with resources so they can independently produce media materials; and develops and evaluates new photographic and non-photographic hardware and systems.

Instructional Television

The Instructional Television Department (ITV) operates a broadcast-quality TV production facility. It provides support for the instruction of deaf students through specialized TV program production, captioning of film, TV and slide programs, and other instructional services.

Additional services include TV equipment loan, a TV laboratory studio, and a closed circuit TV system programmed especially for deaf audiences. Programming includes live interpreted newscasts as well as captioned entertainment and informational programs.



Training and Media Services

The Training and Media Services Department provides audiovisual equipment, print, and non-print materials to support the faculty, staff, and students of NTID. It circulates audiovisual equipment for classroom and special project use from centers in both of NTID's academic facilities. It maintains and repairs nearly 350 telecommunications devices used by hearing and hearing-impaired people throughout RIT. The non-print collection of films, slides, and videotapes adapted for use in this setting exceeds 1,200 items supporting the educational, personal, social, and cultural development of NTID students.

The Staff Resource Center offers the latest print information on deafness for use by in-house personnel and external audiences. Training programs and workshops assist new staff members in acquiring the unique skills necessary to work at NTID and offer professional growth opportunities for veteran staff members.

The Department also coordinates an internship program that provides advanced in-service training to professionals interested in working with the hearing-impaired population. The program offers both graduate and professional internships.

Graduate internships offer master's and doctoral level students the opportunity to gain experience in practical applications of their discipline with college-age students.

Professional internships offer a unique opportunity for professionals from education, business, and industry to develop and practice their professional skills. Each intern has a mentor who supervises the intern's experience in working with deaf college students.

The length of the internship depends on the intern's individual needs and those of the sponsoring institution.

For further information on NTID internship programs, contact:

Rochester Institute of Technology
National Technical Institute for the Deaf
Coordinator of Internship Programs
One Lomb Memorial Drive
Post Office Box 9887
Rochester, New York 14623

(716) 475-6864 (Voice and TDD)

Research

NTID conducts research to help improve the education and communication skills of deaf RIT students and to understand the effects of these and other influences on the lives of deaf people, including work.

Research in education focuses on special ways to help deaf students learn effectively, usually through more effective teaching, instructional technology, and support services such as interpreting and notetaking.

In communication, researchers are learning more about the hearing, speech, and language of deaf students, and developing ways to assist students in acquiring better expressive and receptive communication through oral, written, and manual language.

Researchers sometimes contact graduates to see how well their education has prepared them for work and other aspects of their lives.

For student involvement in research, see page 77.



Professional and Staff Development

NTID offers programs in teaching effectiveness to the faculty. The Department of Faculty Development provides training for new faculty; facilitates the process of teacher supervision; improves and enhances the skills of veteran faculty members; and offers training to teachers of students in mainstreamed classes.

Teaching skills and knowledge may be acquired through a teaching clinic, workshops, support groups, mentorships, or ad hoc consultations with department faculty members. A network of professionals throughout NTID provides the department with additional resources for training.

Joint Educational Specialist Program for the Deaf

The University of Rochester and RIT have developed a graduate program designed to improve the quality of education and services for deaf people.

Graduates of the program receive master's degrees and are qualified to work as professionals with deaf people at the secondary school level in:

- teaching deaf and hearing secondary students in areas such as English, mathematics, science, and social studies;
- facilitating the provision of special support services for deaf persons, such as tutoring, notetaking, interpreting, speech training, and educational audiology;
- serving as resources on deafness to schools involved in mainstreaming deaf students into regular school systems.

Graduates work in secondary schools serving deaf students, or function as instructional leaders, working with colleagues to enrich and upgrade the quality of education for deaf people nationwide.

For further information, contact:

University of Rochester
Director, Joint Educational
Specialist Program
422 Lattimore Hall
Rochester, New York 14627

(716) 275-4009 (Voice and TDD)



The National Project on Career Education

The National Project on Career Education (NPCE) is supported jointly by NTID and the Pre-College Programs at Gallaudet College in Washington, D.C. Teams of career education (CE) participants from 60 schools and programs for K-12 hearing-impaired students from 42 states were trained by NPCE to be trainers and consultants in career education. More than 400 people make up the NPCE network.

The long-range goal for NPCE is for each state to have a model CE program and a cadre of CE facilitators who can assist personnel in other schools having hearing-impaired students to develop and implement plans for a comprehensive K-12 CE program, and infuse CE concepts into the school curriculum.

NPCE teams are contracted to deliver "ripple" workshops to personnel in their local schools. Follow-up, onsite technical assistance is provided when member teams need consulting help. Training materials for involving parents in the development of CE skills and implementation of CE programs also have been developed. Career education courses for hearing-impaired students in the 9th and 10th grades are available for use by educators of deaf persons. For a list of available CE products and services, contact:

Rochester Institute of Technology
National Technical Institute for the Deaf
National Project on Career Education
One Lomb Memorial Drive
Post Office Box 9887
Rochester, New York 14623

LIFE OUTSIDE THE CLASSROOM

Life outside the classroom includes a variety of activities that appeal to both deaf and hearing students. Dances, parties, films, concerts, plays, exhibits, athletic events, and other social functions are scheduled during the academic year. These events are sponsored by the College Activities Board, the Residence Hall Association, the Greek Council, the Student Directorate, the Off-Campus Student Association, the NTID Student Congress, special interest clubs of many kinds, and department and professional associations. Three national sororities and six national fraternities offer social activities and promote high scholastic and social standards among members.

Major social events on the activities calendar include Homecoming, Winter Weekend, and Spring Weekend. Activities are publicized through a quarterly activities calendar.

The College-Alumni Union

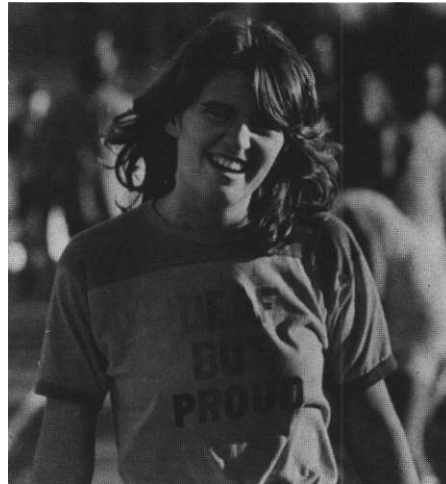
The College-Alumni Union services events sponsored by and for the entire campus community—students, faculty, administrative groups, alumni, and guests. Staff members are available to assist and advise individuals and groups in planning and coordinating their activities. In addition, a complete information service is located in the main foyer.

The facility houses the 525-seat Ingle Auditorium; a self-service bookstore; a complete gameroom for bowling, billiards, table tennis, and video games; a unisex hairstyling salon; a candy and tobacco counter; three separate dining areas comprised of the main cafeteria, the Ritskeller, and the Clark Dining Room; and meeting rooms and lounges. Other offices include Student Activities/Union Services, Special Events, Student Affairs, Orientation, Faculty/Staff Development, Chaplains, Complementary Education, College Activities Board, Student Directorate, WITR radio station, Student Television Systems, the RIT yearbook *Techmila*, the student magazine *Reporter*, Amateur Radio Club, Black Awareness Coordinating Committee (BACC), Vets Club, and the Off-Campus Student Association.

NTID Student Congress

The NTID Student Congress (NSC) is a student government for deaf students interested in leadership activities. Its purposes are:

- to help interested students communicate their needs, ideas, and concerns about campus life to faculty, administrators, and other student organizations within RIT;
- to provide interested students with opportunities for developing leadership skills;
- to encourage student activities on campus;



- to encourage integration by providing deaf students with opportunities to interact socially, academically, athletically, and culturally with hearing students.

NSC is divided into six areas:

Academic Affairs focuses on coursework and teaching methods. It investigates student concerns about the quality of coursework and advises academic departments on improving and developing new curricula.

Athletic Affairs develops athletic activities and encourages deaf students to form teams to participate in intramurals and tournaments sponsored by the Eastern Athletic Association of the Deaf. Other athletic events are the biennial Deaf Hockey Tournament and the annual "Gallaudet-RIT" sports weekend.

Cultural Affairs plans cultural events and contests involving art, photography, and music. It also coordinates an annual "Miss NTID Pageant" and weekly captioned films.

Legal and Organizational Affairs refers deaf students with legal needs to the right person and works with constitutional issues of NSC-sponsored organizations and clubs.

Public Relations Affairs prepares advertisements and posters for NSC-sponsored events. It also is responsible for giving reports of NSC meetings to the Student Communication Center (an organization responsible for media).

Social Affairs plans social activities, such as picnics, dances, and parties. A committee is formed every year to plan an annual "NCS Banquet" to honor outstanding NTID students.

The Student Directorate

The Student Directorate is the governing body for RIT students. It communicates the needs and desires of the student body to RIT administrators, faculty, and staff, and communicates the decisions of the administration to the students. It organizes the student body to formulate and express student opinion on campus issues affecting students and administers the Student Hearing Board, which provides for the self-discipline of the student body.



All full-time undergraduate students become members of the RIT Student Directorate through payment of the Student Activities Fee. Part-time, non-matriculated, or graduate students may become members of the Student Directorate, if they wish to participate in student-sponsored activities, by paying the Student Activities Fee.

The Black Awareness Coordinating Committee

The Black Awareness Coordinating Committee (BACC) is a student organization for minority students. Its constituency is mainly black and Puerto Rican undergraduates, but graduate students have been actively involved. The BACC was organized to foster an awareness of the role of black men and women in society, and to create a greater understanding among black students of RIT. The BACC is involved with many facets of student life and community activities—social, cultural, and political, all in an attempt to enlighten and make students' years at RIT years of growth.

Through the leadership of its executive board, BACC sponsors programs and extracurricular activities relevant to the "Black and Puerto Rican Experience!"

Intercollegiate Athletics

Intercollegiate athletics are an integral part of the total educational environment at RIT. Participation on a team or as a spectator greatly enhances campus spirit and student life.

The Institute is in the process of upgrading its intercollegiate athletic program, emphasizing men's hockey, basketball, soccer, and lacrosse. Increased emphasis is being placed on women's sports with the intent of identifying those areas with the greatest potential for development.

RIT offers intercollegiate competition during the fall, winter, and spring quarters. In the fall, the Institute competes in men's cross country and soccer. Women's competition is offered in soccer, volleyball, and tennis. Winter activities include hockey, basketball, swimming, and wrestling for men, and swimming and hockey for women. In the spring, men's teams compete in track, baseball, lacrosse, and tennis. Women's sports feature Softball and track.

RIT's teams, known as the Tigers, are members of the National Collegiate Athletic Association (NCAA), Eastern College Athletic Conference (ECAC), Independent College Athletic Conference (ICAC), Association of Intercollegiate Athletics for Women (AIAW), United States Intercollegiate Lacrosse Association (USILA), and New York State College Hockey Association (NYSCHA). The ICAC, RIT's prime conference of competition, also includes Alfred University, Clarkson College, Hobart and William Smith Colleges, Ithaca College, Rensselaer Polytechnic Institute, and St. Lawrence University. The Tigers joined the conference in 1971.

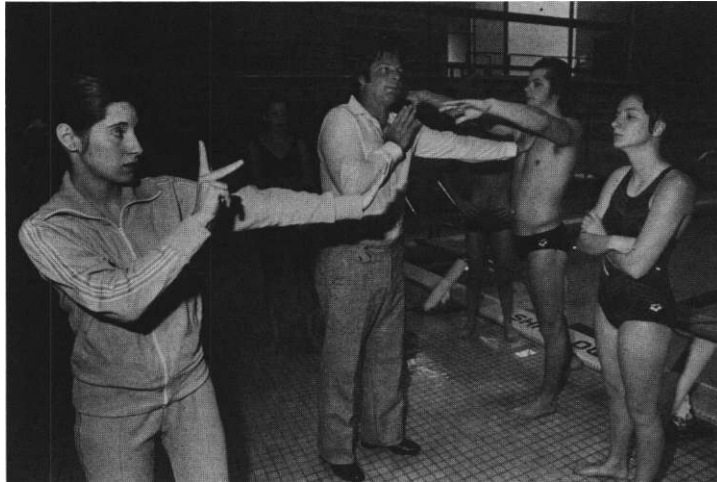
With the exception of men's hockey, all teams compete in Division III of the NCAA ECAC, and AIAW. The hockey program was elevated to Division II in 1980-81.

Eligibility for intercollegiate competition is governed by NCAA ECAC, and AIAW rules. A student must be full time (minimum 12 quarter hours of credit), day school enrolled, and making satisfactory progress toward a baccalaureate degree.

Throughout the years, Tiger teams have experienced continued success within the conference and nationally. RIT has won numerous conference titles and boasts more than 30 All-Americans.

Support Services for Hearing-Impaired Students in Physical Education and Athletics

NTID's Physical Education and Athletics Support Department provides physical education and athletic support services (interpreters, notetakers, and tutors) for deaf students in RIT physical education classes, intramurals, recreation, and athletic activities. The Department also provides direct instruction in physical education courses.



Intramurals and Recreation

The Intramural Program at RIT provides a range of individual and team activities designed to meet the structured and competitive needs of students who do not wish to participate in intercollegiate athletics. This program is a vital part of the recreational opportunities and services afforded to all students to help balance academic endeavors with relaxing and enjoyable leisure activities.

The Intramural Program is attractive and popular. The activities offered in the program include basketball, volleyball, Softball, ice hockey, flag football, swimming, broom hockey, and inner tube water polo. Information relative to the scheduled times and registration dates for these activities are posted and announced to the student body. All indoor and outdoor recreational facilities are available to students for informal, leisure time endeavors during scheduled periods throughout the academic year. To ensure the safe and effective use of facilities, students are required to have their I.D. cards with them. Indoor facilities include: 25-yard swimming pool, wrestling room, ice rink, two gymnasiums, bowling alleys, game and billiard room, and an exercise and fitness center. Outdoor facilities feature: 12 tennis courts; quarter-mile, all-weather track; Softball fields, and numerous other fields for flag football, soccer, field hockey, baseball, and lacrosse.

Daily facility hours for recreation are posted in the physical education building, and any changes to the schedule are posted on the reservation board in the lobby of the gymnasium.

Locker facilities are available and may be rented upon payment of a locker gym pass fee. These arrangements may be completed by contacting the equipment room supervisor in the basement of the physical education complex.

Cultural Activities

The cultural activities offered at RIT can greatly enrich students' lives. Deaf and hearing students perform in the RIT Pep Band, and deaf musicians play in the NTID Combo. A singing/signing choir also is popular among students and staff. Students perform, or are part of the stage crew, for several major theatrical productions, and the RIT Dance Company performs two or three times a year.

Cultural programs, exhibitions, and on-campus gallery shows are provided for student enjoyment.

The Mary E. Switzer Gallery at NTID attracts exhibitors from all over the United States. The gallery shows change monthly and include painting, photography, and sculpture. Student artwork also is exhibited in the gallery.

Special Speakers Series

The NTID Special Speakers Series brings well known individuals to RIT each quarter. The purpose of this program is to give NTID students the opportunity to meet with change-agents and newsmakers in our society.

Selected guest speakers have included Simon Wiesenthal, Nazi hunter and 1983 Nobel Peace Prize nominee; Mikhail Baryshnikov, the world's foremost ballet dancer; Phyllis Frelich, Tony-award winning deaf actress from *Children of a Lesser God*; and Richard Simmons, national diet and exercise guru. The Series also has brought a television journalist, a marathon swimmer, a trans-Atlantic balloonist, a cross-country runner, and vaudeville groups to campus. All events are interpreted for deaf participants.

Student Life

A variety of exciting and challenging programs are available to help NTID students develop their personal and social skills. Students can become involved in experiences that enhance their awareness about themselves, others, and the world around them. Some examples include programs related to getting along with others, human sexuality, drugs and alcohol, leadership development, and wellness. Resident advisors provide students with information about these programs.

Community Services

Students can help others and develop themselves through participation in Community Services, a program sponsored jointly by the Student Life Team and RIT Complementary Education. Interested students do volunteer work in schools, hospitals, and other community agencies. Students can present workshops on deafness to community organizations as a part of special group projects. Students involved in Community Services can receive NTID academic credit or RIT Complementary Education Certification for their service.

Outdoor Experiential Education Program

All students at RIT have many opportunities to develop personal and social skills through outdoor education programs. The Outdoor Experiential Education Program (OEE) offers a variety of activities aimed at developing leadership skills, environmental awareness, and a sense of joy and challenge in living, working, and playing in a natural environment. A ropes course in the "Red Barn" cross-country skiing, flat and white water canoeing, hiking, camping, and rock climbing are some of the areas in which students and staff learn together. NTID academic credit and RIT Complementary Education Certification for OEE experiences can be arranged.

Student Services

Housing

Residence hall living is an important part of a student's total educational experience.

NTID attempts to provide students with a living environment that will contribute positively to each student's personal, social, and academic growth.

All first-year NTID students are required to live in residence halls, except those living with their families. Students other than first-year must have a signed release form in order to live off campus.

All second-year students are guaranteed residence hall space. However, not all students are able to live in the NTID residence hall complex. All third- and fourth-year students can request, but are not guaranteed, residence hall space.

The residence halls are divided into "houses!" Each house has approximately 40-50 students and a resident advisor. Resident advisors are students specially chosen for their maturity and responsibility. Resident advisors are trained to help other students living in their houses.

Some residential areas are coeducational, with men and women living in separate houses on the same floor.

Students also may choose to participate in special interest houses located in the dormitories. Special interest houses include the Art House, the Business House, and Image-makers. Several other houses are provided for sororities, fraternities, and social clubs.

The Intercom facility, in Mark Ellingson Hall, provides TDD and interpreter-assisted telephone services for students. Intercom serves outgoing phone calls only. Several public pay phones with TDD link-ups also are available throughout the RIT campus. Messages from incoming phone calls are handled by the 24-Hour Desk in Mark Ellingson Hall. The 24-Hour Desk also operates a limited lendout system for portable TDDs.

Nearly all the rooms in the residence halls are doubles. However, some houses do have a limited number of single rooms. These single rooms are not available to entering students. During the fall quarter, a few entering students may be assigned three to a room.

All corridors and rooms are carpeted. A bed, desk, chair, dresser, closet, and window covering are provided for each student in a room. Reading lamps are not provided.

Each corridor in the residence halls has its own bathroom with showers. Each house has its own lounge furnished for study and relaxation.

Coin-operated laundry facilities are available in the basement.

Students living in the residence halls are required to be on a meal plan. They may choose either a 15 or 20-meal per week plan. The 15-meal plan includes three meals a day, Monday through Friday only. The 20-meal plan includes three meals a day, Monday through Saturday, along with brunch and dinner on Sunday. Storage or cooking of

food in the rooms is not permitted. However, several kitchenette areas are available in the residence halls for occasional cooking of snack foods.

Each accepted student will receive a packet of information about residence hall living, rules, and regulations. The rules and regulations conform to the laws of the local, state, and federal governments. They are aimed at the safety and comfort of students and the educational goals of RIT. Students who break residence rules and regulations face judicial action and possible dismissal from the residence halls or from RIT.

Housing for married students, as well as certain single students, faculty, and staff is available in RIT-owned apartments and townhouses. A brochure describing the three complexes, Colony Manor, Perkins Green, and Riverknoll, is available from:

Rochester Institute of Technology

Residence Life Office
Grace Watson Hall
One Lomb Memorial Drive
Post Office Box 9887
Rochester, New York 14623

(716) 475-2572 (Voice)
(716) 475-2113 (TDD)

Residence halls are closed:

- during Christmas break; and
- between spring and summer quarters (except for students enrolled both quarters).

Art House

The Art House is a special living area in the residence halls designed to accommodate an students of the RIT community. The Art House provides an opportunity for deaf and hearing students majoring in art to live in a supportive community.

Art House is on the second floor of Alexander Graham Bell Hall. It houses approximately 25 students representing almost all art programs at RIT. Deaf and hearing upperclass students as well as first-year students live in the house. Students are able to use special facilities including a seminar/study room, a fully equipped work study, and a television lounge with display areas for student work.

Art House residents have visits and informal discussions with professional artists and designers, recent graduates, and other people related to the profession. These experiences provide insight into art careers. Art House is a self-governing house whose purpose is to share a common interest in art as well as to help educate the RIT community about the art professions. The integrated hearing and deaf environment provides all members with opportunities to understand each other's backgrounds while sharing the common goal of art as a professional career.

Business House

The Business House is a special living area within RIT residence halls for students in business administration or related fields. The Business House is an integrated deaf/hearing environment governed by an executive board and advised by NTID faculty members.

Business House is on the second floor of Mark Ellingson Hall and houses 25 students. Events on the floor may include visits by professionals from various dimensions of the business community, presentations on job search techniques and study skills, and relaxing "get-togethers" for house members and guests.

Business House has a lab that provides additional study space on the floor and a small resource library. An advanced student from the College of Business tutors students in the Business Lab during weeknights. The Business House maintains a connection with the Business Club, often sharing activities.

Imagemakers

Imagemakers is a special living area within RIT's residence halls where hearing and deaf photography and media production students live and work together.

Imagemakers is on the second floor of Peter N. Peterson Hall and houses 25 students. It is self-governing, which gives the students the responsibility of learning to manage themselves. Students work closely with faculty advisors from NTID's Applied Photography/Media Production Department. Living in an integrated hearing and deaf environment also provides members with opportunities to understand one another's backgrounds while sharing common interests.

Student Health Service

A wide range of services and programs are available to students through the Student Health Services. These include direct primary care/clinical services for diagnosis and treatment of health problems; health counseling; mental health services; referral for specialized consultation and/or care; and ongoing health education programs.

Services are provided on a walk-in basis by a health care team of physicians, nurse practitioners, registered nurses, and a health education coordinator. A certified interpreter is available to assist as needed. Contracted specialists, including a gynecologist and a psychiatrist, are also available.

The Student Health Service is located on the second floor of the George Eastman Memorial Building and is open to students Monday through Friday from 8:30 a.m.-4 p.m. (emergencies are seen until 4:30 p.m.). A nurse is on duty Monday through Friday, from 4:30-11 p.m. and on weekends, from 10 a.m.-5:30 p.m., on the first floor of Nathaniel Rochester Hall.

Emergency transportation service is available seven days a week, 24 hours a day, by the RIT Ambulance Unit. This unit is staffed by student volunteers with emergency medical training. For RIT Ambulance service, call the RIT Emergency Number: 475-3333; TDD 475-6654.

All medical information is confidential and will not be released without written student consent.

Health Insurance

Accident and sickness insurance is required for all students. The RIT Student Accident and Sickness Plan that is available through the Institute is paid in full by NTID for its students. There is a separate charge to all other students for this policy. A brochure describing the coverage provided in this plan is mailed to each student before registration.

Day Care

The Horton Child Care Center is a pre-school and kindergarten for children of students, faculty, and staff at RIT. It is located in Riverknoll housing next to the academic buildings. The Center offers all-day and half-day programs for children ages 2 years, 9 months through 5, and has an after-school care program for children ages 6 to 8. It is open all four academic quarters. The summer quarter has a day camp format and is open to children 2 years, 9 months through 8 years. Some tuition aid is available.

Inquiries and application can be made by writing:

Rochester Institute of Technology

Horton Child Care Center
85 Kimball Drive
Rochester, New York 14623
(716) 424-1244 (Voice)

Campus Safety

Professional security and safety staff are on duty 24 hours a day. These RIT employees constantly patrol all campus areas. RIT does not take responsibility for lost or stolen personal belongings of students, faculty, or staff. Students are encouraged to have their own insurance policies.

Campus Safety also provides informational programs on rape prevention, crime prevention, fire safety, operation identification, student escorts, and emergency notification for parents trying to reach students. For on-campus emergencies requiring immediate medical, fire fighting, or law enforcement attention, students should call the emergency number: 475-3333- For routine matters, they should call 475-2853- The TDD number for both emergency and routine matters is 475-6654.

Identification Card

All students are required to have an official RIT Identification Card. Students must carry their cards with them at all times, and report loss at once to the I.D. Office at 475-2125. All I.D. cards must be validated quarterly. Replacement of lost cards is \$5.

Vehicle Registration

All vehicles operated on campus by students, faculty, and staff members must be registered with Campus Safety. There is no fee for this registration. Stickers can be obtained either at special tables set up on the academic side of campus during open registrations or anytime at the Campus Safety Office in Grace Watson Dining Hall.

Vehicle registration stickers are color-coded according to residence status: Dorm/Riverknoll residents are issued one color sticker; Perkins, Colony Manor, and Racquet Club another color; and commuters a third. Specific parking rules are associated with each color sticker. These rules are listed in the rules and regulations brochure issued at registration.

Although student stickers are valid from September 1 through the following August 31, a change in residency may require re-registration. Contact the Traffic Office at 475-2074 if there is a question.

Parking and Traffic

Speed on campus is monitored by electronic speed control devices; the speed limit on campus is 30 mph unless posted otherwise.

Certain parking spaces on campus are reserved by signs for special parking purposes, i.e., medical/handicapped, service, visitor. Parking in these specially marked spaces is by permit only. Short-term parking is available in several campus locations. Maximum time allowed in these spaces is 20 minutes, and flashers must be used during that time.

Enforcement

Citations are issued for infractions of the rules and regulations, with fines of \$5 and \$10, depending on the violation. Towing illegally parked vehicles from fire lanes and medical spaces or "booting" (immobilizing) those chronic violators who are illegally parked are other means of enforcement. Chronic offenders also are subject to judicial action that may result in campus driving privileges being revoked. Additionally, grades or transcripts will be withheld if fines are not paid.

Bookstore

Textbooks, school supplies, art and design supplies, and photographic supplies and equipment may be purchased at the RIT Bookstore. General reading material and monogrammed gift items also are available. Students may get an estimate of books and supplies in a specific area of study by contacting departmental offices. Most expenditures for textbooks and supplies are made at the beginning of each quarter, when store hours are extended for students' convenience.

Student Directory

The NTID Student/Faculty/Staff Directory is published yearly. It contains photographs and home addresses of all registered students, and photographs, offices, and phone numbers of all faculty and staff members.

Orientation and Special Programs

Each fall, new students participate in a week of orientation activities known as SOS (Student Orientation Services) Week. These activities are designed to help students make the personal, social, and academic transition to the RIT environment.

Approximately 120 upperclass student volunteers plan and present the orientation program. New students are required to attend sessions on academic information and advising, available student support services, and information about RIT rules and regulations. In addition to these sessions, social activities and programs are planned to allow students to meet new people and make friends.

During SOS Week, a special information area, known as Info Central, is set up at the College-Alumni Union. This area is equipped with a TDD and students are prepared to answer any questions about orientation programs and the beginning of the school year.

The NTID Committee is one of 11 SOS committees. This group is directly involved in planning activities and developing strategies to involve NTID students in the orientation program.

SOS begins recruiting new members for the next year in October. Information about being an SOS member may be obtained from:

Rochester Institute of Technology

Orientation and Special Programs
One Lomb Memorial Drive
Post Office Box 9887
Rochester, New York 14623
(716) 475-2508 (Voice)

Department of Campus Ministries

RIT has no religious affiliation, but it does recognize the importance of religion in the life of students, faculty, and staff. Campus Ministries is a department within the Division of Student Affairs that assists members of the RIT community with religious, ethical, and personal concerns.

Various faiths have assigned Campus Ministers to serve the needs of students, faculty, and staff of their respective persuasions in the areas of worship, social services, religious studies, personal counseling, and dialogue among students, faculty, and staff.

Jewish, Lutheran, and Catholic Campus Ministries are available full time to discuss options for campus activities and to assist in developing programs of interest to the Institute. They are available for counseling and referral when needed.

The following denominations are represented: Assembly of God, Baptist, Episcopal, Genesee Area Campus Ministries, Hillel Foundation/Jewish, Lutheran, Methodist, Roman Catholic, and Ministry to Blacks in Higher Education. All worship services and activities are interpreted.

AFTER COLLEGE

Placement

Historically, 95 percent of RIT's deaf graduates entering the labor force have found jobs. Of the 1,667 NTID-sponsored students who graduated from 1969 through 1983, 1,295 were available for employment and 1,224 were employed. RIT provides placement services through NTID for graduates who still seek employment. The majority of the 372 graduates who were not seeking employment were continuing their education, and the majority of those were studying at RIT.

This high employment rate largely is the result of deaf RIT graduates having technical skills that are beneficial to employers. Also, NTID's highly individualized placement program teaches students job search skills. Employment advisors help students develop strategies to find jobs, and help employers understand the programs of NTID and the other colleges of RIT, the graduates' technical and communication skills, and deafness in general.

Table I shows what has happened to these graduates. One thousand two hundred and ninety-five (1,295), or 78 percent, decided to look for employment.

Three hundred and seventy-two (372), or 22 percent, did not enter the work force at graduation.

The career placement success rate is more than 95 percent for graduates seeking employment. Table II shows the area of the economy where graduates have found jobs. Eighty two percent are employed in jobs in business and industry. Twelve percent of working graduates are employed by the government, and approximately six percent have jobs in education. More graduates are placed in jobs in business and industry every year as students become more aware of the growing opportunities available to them in this area of the economy.

As indicated in Table I, 372 NTID-sponsored graduates did not enter the work force when they graduated. Table III shows what these graduates are doing. Seventy-six (76) percent of the non-working graduates continued their education. Sixty (60) percent of this group chose to continue their education in another college of RIT, while 40 percent continued their education at

other schools. Students in this group continue their education in two ways. Some students study for higher undergraduate degrees. Other students change career plans and begin a new program of study. Table III also shows that six percent of the graduates have not entered the labor force because they are homemakers, and 13 percent are temporarily not looking for employment. Five percent of the graduates have chosen not to seek employment or continue their education on a long-term basis.

Status of Deaf RIT Graduates

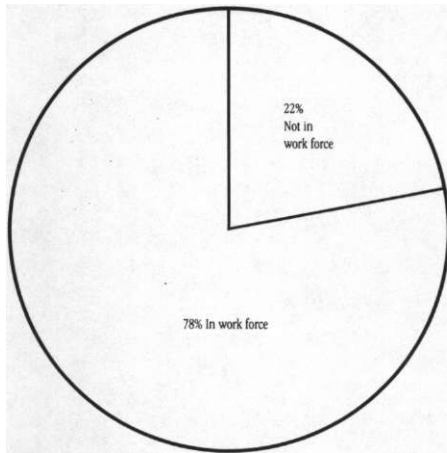


Table I

Graduates by Area of Employment

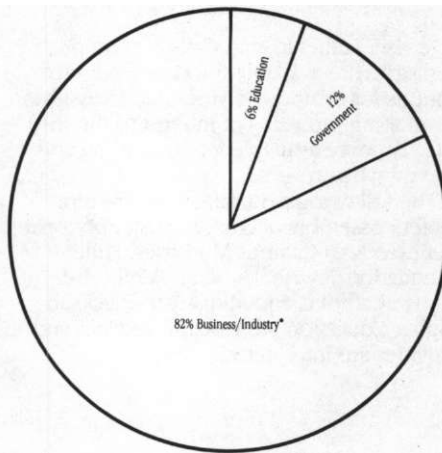


Table II

Graduates Not Entering the Labor Force

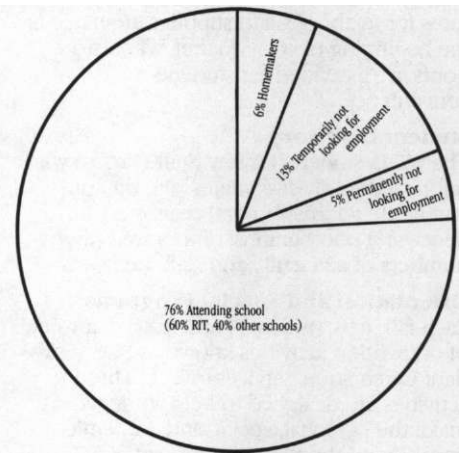


Table III

*Business/Industry includes hospitals and other health care facilities

Some of the jobs that deaf RIT graduates hold are:

Accounting Technician	Layout Designer
Actor	Machine Operator
Aerosystem Engineer	Media Specialist
Assembler	Medical Lab Technician
Associate Engineer	Medical Record Technician
Biomedical Photographer	Numerical Control Machinist
Chemical Technician	Optical Finishing Technician
Computer Operator	Optical Printer
Computer Program Designer	Photo Processing Technician
Computer Specialist	Professional Artist
Cost Analyst	Programmer
Data Transcriber	Publications Specialist
Designer	Quality Control Technician
Die Maker	Spray Painter
Apprentice Drafter	Structural Designer
Electronic Technician	Teacher
Lab Manager	Word Processing Supervisor

Companies and government agencies that have hired graduates include:

AT&T: Indiana, Wisconsin, New Jersey
Beechcraft Corporation: Kansas
Bell Laboratories: Illinois, New Jersey
Bendix Corporation: Indiana
Boeing Aircraft Company: Washington
Burroughs Corporation: Pennsylvania
Commonwealth Edison: Illinois
Container Corporation of America: Illinois
Continental Bank: Illinois
Department of Health and Human Services: Washington, D.C.
Department of the Navy: Washington, D.C.
Digital Equipment: New Mexico
Eastman Kodak Company: New York, Illinois, Texas
Exxon Corporation: Texas
General Dynamics: California, Missouri
GTE Corporation: Connecticut
General Electric Corporation: Illinois
Graphic World: Missouri
Hewlett-Packard: New Jersey, Massachusetts, Colorado
Houston Gas Company: Texas
IBM: Vermont, Colorado, New York, Virginia, Texas, Maryland, Minnesota, California
Internal Revenue Service: Washington, D.C.
Lawrence Livermore Laboratories: California
Litton Corporation: Missouri, Maryland
Lockheed Corporation: California
McDonnell Douglas: California, Missouri
Mobil Corporation: New York
National Technical Institute for the Deaf: New York
Naval Service Weapons Center: Maryland
Northrop Corporation: California
Ohio Bell: Ohio

Pearl Vision: Michigan, Ohio, Pennsylvania, Washington
Pitney Bowes: Connecticut
RCA Service Center: Georgia
Rockwell International: Pennsylvania
Seattle Arts Commission: Washington
Stone & Webster: Massachusetts
Sybron Corporation: New York
Tenneco: Texas, Virginia
Texas Instruments: Texas
Travelers Insurance: Connecticut
TRW: California
U.S. Steel: Pennsylvania
VA Hospital: New York
Wilson Health Center: New York
Xerox Corporation: New York

National Center on Employment of the Deaf

The National Center on Employment of the Deaf (NCED) is designed to promote successful employment of RIT's deaf graduates, as well as qualified deaf people nationwide. To meet this objective, the Center offers a range of services to employers, professionals serving deaf persons, and qualified deaf persons. These services include:

Employer Development

NCED meets with employers on campus and on site to assist in recruiting, hiring, and accommodating qualified deaf people. Specific services include special seminars on deafness and employment, job analysis, and an active on-campus orientation and recruiting program. In addition, NCED has produced numerous reference materials designed for employers of deaf persons.

Training

In-depth training programs for employment representatives and direct supervisors of deaf people provide a detailed understanding of deafness and its implications for the work environment. In addition, training is provided for professionals serving the deaf regarding the development of productive relationships with employers on behalf of deaf clients or students.

Information Service

Current literature and media related to employment of deaf people are updated annually for the *NCED Bibliography*. This annotated reference is available through the RIT Bookstore. In addition, direct applied research efforts are underway for future publications.

Alumni Programs

RIT has more than 1,000 deaf alumni who live throughout the United States. All deaf graduates are automatically members of NTID's alumni organization and the RIT Alumni Association.

An Alumni Program Office was established in 1974 for deaf graduates, according to the RIT Alumni Association Constitution. The Office's purpose is to meet the needs

of deaf alumni, and is not intended to duplicate efforts of its parent organization.

The Office was established to help provide benefits and opportunities for deaf alumni in employment and continuing education; to gather alumni feedback to help update NTID programs; and to help alumni develop pride in themselves.

The Alumni Program Office is one of two major resources for NTID alumni. The other is the Alumni Advisory Council, which consists of four elected deaf RIT graduates who advise an alumni specialist working closely with deaf alumni nationally.

There are a number of services available to deaf RIT graduates, including an international travel program; the *NTID Alumni News*; the *RIT Alumni News*; free use of the library and athletic facilities (with ID card); and many social events, including Homecoming Weekend.

To date, NTID graduates have established alumni chapters in Illinois, southern California, Missouri, New Jersey, southern Pennsylvania, Washington, D.C., and Rochester, New York.

Chapter members are involved in social and cultural activities. They work together to establish a strong national alumni network that aids in recruitment and placement efforts for deaf RIT students and graduates.



ACADEMIC POLICIES/RULES

Class Attendance

Students are expected to meet the attendance requirements of their individual programs.

All students are responsible for attending their scheduled classes regularly and on time. Absences do not excuse students of responsibility for meeting normal requirements in any course.

Courses and schedules may change to allow flexibility in meeting individual students' program needs. Students may be required to attend evening, Saturday, or special classes. Individual faculty members may establish their own class requirements.

There also are rules and regulations about behavior in the residence halls and about use of general campus facilities. These rules are published in *Facts*, the RIT student handbook that is distributed at registration.

Grading System

Grades represent the student's progress in each course. Grades are given to students on a Grade Report Form at the end of each quarter. The letter grades are:

- A = Excellent
- B = Good
- C = Satisfactory
- D = Minimum Passing
- E = Conditional Failure
- F = Failure
- I = Incomplete
- W = Withdrawn
- R = Registered
- Z = Audit
- S = Satisfactory
- T = Transfer
- X = Credit by Examination

Grade Point Average

Each course has a credit hour value. Credit hours are based on the number of hours per week in class, laboratory, or studio, and the amount of outside work expected of the student.

Certain letter grades produce the quality points per credit hour, as follows:

- A =4 quality points
- B =3 quality points
- C =2 quality points
- D =1 quality point

These quality points are used in deciding a student's quarterly grade point average (GPA).

E and F count as 0 in figuring GPA. R, W, Z, S, T, X, and I grades are not used in figuring GPA.

The grade point average is the total quality points earned divided by the total quarter credit hours a student attempts.

$$\text{GPA} = \frac{\text{total quality points earned}}{\text{total credit hours attempted}}$$

Students receive Institute (RIT), program (of study), and principal field of study grade point averages. The Institute average reflects all coursework completed at RIT. The program average reflects all completed coursework applicable to graduation in a student's academic program. The academic program refers to the course requirements specified by the degree-granting college and noted in the Institute catalog. The principal field of study average reflects coursework completed in a student's specialized field of study.

The grade point average is used in determining academic standing for the Dean's List, academic probation, and suspension.

Release of Academic Records

RIT does not send grade reports to parents, vocational rehabilitation counselors, or other third parties. Students are expected to share such reports as they see fit.

Principal Field of Study

For programs offered at NTID, the principal field of study is the required and elective technical courses applicable toward graduation in a specific academic program. General Education, Communication, and Liberal Arts courses are not included. The principal field of study for pre-technical and pre-college includes all technical coursework required for the student to become eligible for acceptance into a specific degree-granting program.

Student Files

A personal file is kept for each student. The file contains confidential and non-confidential information about the student's, program, academic history, and progress. Information in the student file is used by faculty and professional staff for admissions, job placement, and evaluation of student progress. The privacy of student records is guaranteed by the Family Educational Rights and Privacy Act of 1974 (the Buckley Amendment). This act makes sure that students can see certain information in their files, and the student gives permission before information in the file is sent out.

Attrition

Attrition is that percentage of a class that withdraws from the college within five years from entering, without receiving any degree. When compared with a national sample of two and four-year public and private institutions with varying selectivity criteria. NTID's attrition rate of 43 percent emerges in a relatively average position.

Institute Writing Policy

The writing policy of RIT is meant to ensure that all graduates develop sufficient skill in the use of the English language to function as educated members of society and to meet any special demands for written communication likely to be placed upon them in their intended careers.

Students must demonstrate that they have the writing skills needed for successful entry into their chosen careers. At least three academic quarters before the student's anticipated completion of baccalaureate degree requirements, department faculty members will determine whether the student is meeting departmental writing standards. A full description of these standards and certification procedures is available from each department. Students whose writing does not meet these standards must take the appropriate remedial measures recommended by the department. Students who entered the Institute in Fall 1978 or later must meet the departmental writing standards before they can graduate.

The nature and standards of departmental writing requirements will be consistent with Institute policy and will be reviewed by the Institute Writing Committee.

Leave of Absence or Withdrawal

Sometimes a student must leave NTID before completing the requirements for a certificate, diploma, or associate degree. When a student leaves NTID permanently, this is called a "withdrawal." When a student leaves NTID for one, two, three, or four quarters, this is called a "leave of absence" (LOA).

NTID will allow a student to go on LOA when the student:

- has a temporary problem that will prevent progress in his/her major; and
- shows the motivation, interest, and ability that is necessary to complete the program.

The student's major department will save a place for the student up to a maximum of four quarters. Such a student may return to the Institute without re-application.

A student who leaves NTID for any reason and does not receive permission for "LOA" will receive the status "withdrawn!" Such a student may or may not plan to return. A "withdrawn" student who wants to return to college must re-apply.

Academic Probation and Suspension Policy

All students are expected to maintain certain academic standards established by RIT.

All students are subject to the following probation and suspension policies of RIT.

Matriculated undergraduate full-time and part-time degree students will be placed on probation or suspended from the Institute according to the following criteria. All actions are taken at the end of the quarter; however, a student may petition the dean of the college for reconsideration of probation or suspension should the removal of an incomplete grade (I) raise the appropriate GPA above those stated below. Each matriculated student will generate three grade point averages. The Institute reflects all coursework completed at RIT applicable to graduation in a student's current academic program. The current academic program refers to the Institute and college degree course requirements specified by the degree-granting college and noted in the institute catalog* The third average, in the principal field of study, reflects coursework completed in a student's specialized field of study.

1. Any student whose program quarterly GPA falls below a 2.00** or whose cumulative GPA in the principal field of study based on at least 20 credit hours attempted in the principal field at RIT) falls below 2.00 will be placed on probation.

2. Any student who has been placed on probation according to (1) above is removed from probation for achievement of both a 2.00 program quarterly GPA and a 2.00 cumulative GPA in the principal field of study, based on at least 20 credit hours attempted in the principal field at RIT.

3. Any student who is on probation according to (1) above and who is not removed from probation in the two succeeding periods of study in which credit is earned will be suspended from RIT for a period of not less than one quarter.

4. Any student who has been placed on probation after having been removed from probation and whose program GPA is below 2.00 will be suspended. Any student who has been placed on probation after having been removed from probation and whose cumulative GPA is 2.00 or above will be granted one quarter to be removed from probation or he/she will be suspended from RIT.

5. Any student whose program quarterly GPA falls below 1.00 will be suspended from RIT.

For programs offered at NTID, the program is defined to be all required and elective technical, communication, and general education courses applicable toward graduation in the student's current academic program. In pre-technical, pre-college, and career exploration programs, the program includes all coursework taken to complete the program.

6. Any student who has been readmitted to his/her original program after having been suspended and then goes on probation will be suspended from RIT.

7. A suspended student may not enroll in any academic course at the Institute while on suspension. When there is evidence that the student's scholastic problems are the result of inappropriate program choice or other extenuating circumstances, the suspension may be waived or the student may be admitted to another program or allowed to take courses on a non-matriculated basis, if approved by the dean of the college in which the enrollment is requested. In evaluating the request for waiver of suspension, the dean may seek the recommendation of the Counseling Center or staff as to the appropriateness of the program for the career goals of the student under consideration.

8. A student may apply to the Admissions Office for re-admission at the end of his/her suspension. Re-admission must be approved by the dean of the college the student wishes to attend upon returning. (This may be the student's original college or another.)

***"C" average*

Research Involvement

NTID at RIT is federally funded. Federal guidelines say NTID should study problems and find solutions that will help improve the education and careers of all deaf people. Therefore, a number of people at NTID conduct research.

RIT expects each NTID student to help in this research. Sometimes this means taking tests and being part of research studies. Students will be helping other deaf people by participating in research.

Helping NTID's researchers is not done for a grade. It does not take much of any student's time. NTID always respects a student's privacy. The research will not hurt a student's health or interfere with academic study.



Institutional and Civil Authority

Students must recognize that they are members of the local, state, and federal communities. They must live according to the law. They do not receive special privileges because they are students or temporary residents.

Student Conduct

Students always are expected to act in a way that reflects well on themselves and RIT. Students are expected to be responsible for their actions and to have concern for the behavior of others. Any student who does not follow the expectations, rules, or policies of RIT may be warned, placed on probation, or, in serious cases, dismissed from RIT.

Institute Standards for Student Conduct

RIT's Educational Mission

It is the mission of RIT "to prepare men and women for living and working in a democratic and technological society" by offering curricula that "... meet the need for technological skills within the broader framework of humanistic values!"

To achieve its mission, the Institute establishes guidelines that provide for the orderly conduct of its instructional and campus life activities. As an educational community, it strives for a campus environment that is free from coercive, exploitative behavior by its members. Moreover, it sets high standards that challenge students to develop values that will enhance their lives professionally and enable them to contribute constructively to society.

Historically, RIT has aspired to the goal of preparing students for the "making of a living and the living of a life, not as two distinct processes, but as one!" This goal includes the emotional, physical, spiritual, and social development of students. The Institute prepares its students for leadership in their careers and in community life and, therefore, high standards of personal devel-



opment, as well as academic excellence, are set that go well beyond the standards of the larger society. Faculty and staff members are expected to set examples for students in the pursuit of their personal and academic development. Although RIT acknowledges and respects the diversity of values and lifestyles of its faculty, staff, and students, each member of the RIT community has the responsibility of observing the standards of campus life that are important to the pursuit of the Institute's mission.

Principles Underlying Institute Conduct Policies

1. Students are expected to assume responsibility for their conduct and to have concern for the behavior of others. Such responsibility includes efforts to encourage positive behavior and to prevent or correct detrimental conduct by others.
2. The Institute places high priority on self-regulation by its members and intends that campus life will provide opportunities for students to exercise individual responsibility.
3. The Institute acknowledges the diversity of backgrounds, lifestyles, and personal moral values of those who comprise the Institute community, and respects the rights of individuals to hold values that differ from those expressed by the Institute. However, in their activities and duties as students, they are expected to observe Institute policies and standards.

4. The Institute has legitimate concern for personal behavior beyond the impact the behavior has on the rights and freedoms of others. When an individual's pattern of behavior is self-destructive, interferes with the achievement of one's educational objectives, or adversely affects the quality of life on campus, the Institute may intervene to correct or prevent such behavior.

5. The Institute values and safeguards the personal privacy of its members. Rooms in campus housing will not be entered by Institute personnel without the permission of the residents, or without authorization from the Vice President for Student Affairs, or unless a legal search warrant has been obtained. Exceptions are made in emergency situations, such as imminent harm to individuals or serious damage to Institute property, and for reasons of health and safety.

6. The conduct of students at events which are sponsored off campus by RIT organizations must adhere to the same standards and policies as events held on campus, and infractions are subject to Institute action.

7. For students living in campus housing, campus life standards have special significance. The residence hall environment is highly interpersonal and the behavior of every individual in some way usually influences the quality of residence life for others. Therefore, standards and policies for residence life are stated explicitly and are communicated to students through residence halls publications.

Summary of Conduct Policies

In keeping with the principles listed, the following broad areas of conduct for students are enunciated. Although they are not all-inclusive, they indicate in general terms the standards of student conduct that are important to the desired quality of campus life and to the educational mission of RIT. More explicit conduct policies are contained in *Facts*, the RIT student handbook; the residence halls "Terms of Occupancy"; and other official Institute documents.





Human Rights and Dignity

The Institute expects all students to practice high regard for the human dignity of other people. It seeks to prevent all types of discrimination on the basis of race, sex, religion, age, handicap, and national or ethnic origin. Attempts are made to resolve conflicts between individuals and groups with differing backgrounds and views through discussion and clarification of values and attitudes. However, repeated disregard for the rights and dignity of others will result in disciplinary action in accordance with Institute policies and procedures.

Personal Conduct

Through its policies, the Institute requires conduct that contributes positively to the personal welfare of students, enhances the quality of the campus living environment, and respects the rights of others. Conduct that infringes on the rights of others or endangers any individual will not be permitted. The sanctions associated with student misconduct are outlined in Institute policies, and actions are taken in accordance with the RIT Judicial Process. The following statements on sexual behavior, alcohol and drug abuse, appropriate study environments, safety, and student regard for property are a further expansion of the Institute's position on the personal conduct of students.

Study Environment

Students need a campus environment that is conducive to studying. This is especially important in those facilities that are designated primarily for study. In the residence halls, each separate living unit must establish in writing the policies it will maintain to provide adequate study conditions according to the basic standards established by the Institute.

Sexual Behavior

The Institute acknowledges that students' sexual attitudes and values are a matter of personal choice. However, responsible sexual behavior, no less than in other areas of human interaction, must take into account the dignity, privacy, and rights of others. No individual should be subjected to exploitative actions. Unacceptable behavior and living arrangements are further defined within the terms of occupancy for the various Institute housing units.

Alcohol and Drug Abuse

Individual students will be held responsible for their behavior even though their judgment may be impaired because of the use of alcohol or other drugs. Registration procedures for all RIT events set forth the responsibilities and procedures to be followed by the sponsoring group at an activity where alcohol is served. No student should be pressured to consume alcohol or other drugs.

Institute policies on drug and alcohol use conform to the laws of the State of New York. The Institute is not a haven from the law, and both New York State law and Institute policy will be enforced. Those students who evidence problems with alcohol or drugs will be offered, and if necessary, required to avail themselves of counseling or other appropriate treatment. Even though individual students may be receiving such assistance, they will be held accountable for their behavior through established Institute judicial procedures.

Safety

Safety is of critical importance at all places on campus, but it is particularly important in the residence halls, because the carelessness of one individual can threaten the lives of hundreds of others. Willful violations of safety, such as causing false fire alarms, will result in immediate action according to judicial procedures. Safety inspections of individual rooms and group living areas will be conducted periodically by authorized Institute personnel.

Student Regard for Property

Students are expected to exercise appropriate care of Institute property and regard for the property of others. A student-developed property damage policy in the residence halls holds accountable those students responsible for damage.

THE EIGHT OTHER COLLEGES OF RIT

College of Applied Science and Technology

The College of Applied Science and Technology includes the Department of Instructional Technology, the School of Computer Science and Technology, the Department of Packaging Science, the School of Engineering Technology, and the School of Food, Hotel and Tourism Management.

The Audiovisual Communications program in the Department of Instructional Technology is designed to expand and improve the skills of graduates of two-year programs in audiovisual technology. The department has developed a national reputation in the multi-image area.

Programs offered in the School of Computer Science and Technology are designed to meet the manpower demands of industry, government, and educational institutions. In addition to theoretical foundations, practical aspects of computer science or computer technology are emphasized. The opportunity for hands-on experience with computer systems is provided and encouraged. Graduates are prepared for employment in computer industries and computer applications departments, or for enrollment in graduate schools to pursue advanced studies.

The Department of Packaging Science offers educational opportunities for students seeking careers in the multifaceted packaging industry. Graduates are prepared for initial employment in such areas as packaging development, sales, purchasing, structural and graphic design, production, research, and marketing.

The School of Engineering Technology offers programs in civil engineering technology, computer technology, electrical engineering technology, mechanical engineering technology, manufacturing engineering technology, and energy technology. Each area consists of a carefully integrated program heavily involved in professional studies, coupled with liberal arts education, mathematics, and on-the-job experience. Graduates qualify for positions within the broad engineering requirements of business, industry, and government.

The School of Food, Hotel and Tourism Management prepares graduates for positions in the wide scope of public feeding, lodging, and tourism. The program prepares graduates for managerial positions in restaurants and food service operations of institutions such as hotels, motor lodges, resorts, clubs, airlines, colleges and schools, business firms, and government agencies.

Dietetics is a structured professional program for persons interested in pursuing a career in the administrative and/or therapeutic aspects of food and nutritional needs in health care facilities.

A travel management program prepares graduates for management careers in tour promotion; corporate travel planning; federal and state tourist boards; convention bureaus; airline/steamship/motor coach companies; retail and wholesale travel bureaus; hotel/resorts; and a variety of leisure business industries.

College of Business

The College of Business is composed of the departments of Accounting, Decision Sciences, Finance, Management, and Marketing; the Center for Retail Management; the Center for Management Development; and graduate programs.

The college is recognized for preparing graduates for the rapidly evolving world of business. Programs are carefully designed to enable students to meet the challenges of innovation and adaptation that they will face in business and industry.

The College of Business offers undergraduate courses in accounting, business management, finance, information systems, marketing, personnel and human resource management, photographic marketing management, and retail management. The college also offers graduate programs in business administration and human services management.

The College of Business believes that to be well prepared for the business world, students need a broad educational background not only in business and management skills, but also in mathematics, science, the humanities, and the social sciences. With this foundation, they can think analytically, communicate and interrelate effectively, understand the ramifications of their decision making, and appreciate the complexities of the business environments in which they will work.

In order to achieve these educational aims, the curriculum has four components: the business core, the major, liberal arts, and cooperative work experience. By building on the liberal arts and business core components, the major provides mastery of marketable skills that are conceptually grounded in the knowledge of larger organizational and societal issues and perspectives.

Cooperative work experience gives students a chance to apply and question their classroom learning. These "hands-on" paid work opportunities are planned for students' last two years so that they will have a sufficient educational background, and so that advance coursework taken between cooperative work terms will be more meaningful. Cooperative work experience makes graduates more attractive candidates for employment.

The College of Business maintains membership in the American Assembly of Collegiate Schools of Business and the Middle Atlantic Association of Colleges of Business Administration. The Center for Retail Management is a member of the American Collegiate Retailing Association.

College of Continuing Education

The College of Continuing Education provides students with an environment in which to learn while improving professional development and personal skills. It provides an alternative to full-time study through part-time study at night, on weekends, or during the day. Working closely with the other colleges of the Institute, flexible educational opportunities are developed for students.

Under the open admission policy, students may take any course or pursue any degree if they have a sufficient background. Academic advisors are available throughout the year to answer questions, tailor programs to fit specific needs, and vary assignments to fit individual requirements.

In addition, the college houses the Center for Quality and Applied Statistics. Besides contract research, the center offers graduate studies in applied and mathematical statistics.

College of Engineering

The College of Engineering offers five five-year cooperative programs leading to the bachelor of science degree with majors in electrical, computer, industrial, mechanical, and microelectronic engineering.

All departments maintain extensive laboratory facilities to provide students with ample opportunities to work with up-to-date equipment in their respective fields. Laboratories are structured and outfitted to provide basic laboratory work as part of the engineering curricula, to give students the opportunity for independent laboratory projects, and to provide facilities for fundamental research by students and faculty.

The computer engineering program prepares graduates to design engineering products that closely incorporate or communicate with computers, and also to undertake significant graduate study where sophisticated computer design can actually be addressed.

Students in the electrical engineering program first develop proficiency in mathematics, science, and engineering fundamentals. While providing a sound engineering core, the program offers significant opportunity for personalized curriculum planning. Individualized study plans range from intense specialization to broad general coverage, with ample opportunity for interdisciplinary activity.

Industrial engineering is concerned with the design, improvement, and installation of integrated systems of people, materials, and equipment. It draws upon specialized knowledge and skill in mathematical and physical science, together with the principles and methods of engineering analysis and design.

Mechanical engineering is a comprehensive discipline, with the mechanical engineer's interests ranging from the design of missile systems to the fabrication of energy efficient structures. The spectrum of professional activity for graduates runs from research through development and design to manufacturing and sales. Because of their comprehensive education, mechanical engineers often assume management positions.

Microelectronic engineering, offered in conjunction with the College of Graphic Arts and Photography and the College of Science, emphasizes the photolithographic aspects of microelectronic processing. It provides a broad interdisciplinary background in optics, chemistry, device physics, computers, electrical engineering, and statistics necessary for entry into the microelectronic industry. Developed with the assistance of industry, the microelectronic engineering program offers an unparalleled opportunity to prepare for professional challenge and success in a leading technological area.

College of Fine and Applied Arts

The College of Fine and Applied Arts offers programs in the arts and crafts through the School of Art and Design and the School for American Craftsmen.

Concentrations, or majors, in the School of Art and Design are given in graphic design, industrial and interior design, painting, printmaking, and medical illustration.

Concentrations in the School for American Craftsmen are given in ceramics and ceramics sculpture, glass, metalcrafts and jewelry, weaving and textile design, and woodworking and furniture design. A new program has been added in graduate computer design, as well as a part-time program in gunsmithing, engineering, and design.

Programs in the School of Art and Design prepare students for a wide variety of positions in which art is related to commerce and industry. Students are prepared to accept major responsibility for the design and execution of projects in graphic design, industrial and interior design, painting, printmaking, and medical illustration. The College of Fine and Applied Arts is ranked among the top professional schools in the United States.

Programs of study in the School for American Craftsmen provide for excellence in creative growth, the development of professional competence, and intellectual and cultural enrichment. The program is a unique blend of apprenticeship and academics. Students who complete the two-year program are prepared to work in the design studios and workshops of established craftspeople, or as technicians in industry. Those who complete the four-year course of study are prepared for careers as self-employed designer-craftspeople, as designers or technicians in industry, or as teachers or administrators of crafts programs. Graduates assume leadership roles in industry, education, and major design studios.

The educational objectives of the school are to stimulate creative imagination and technical invention, to develop knowledge of process and command of skills, and to foster appreciation, not only of the crafts, but of the related arts. The program strives to inspire students to seek continual improvement through analysis and self-evaluation.

Studies in these two schools express a common educational ideal: the conviction that technical competence provides the most satisfactory foundation for the expression of creative invention and excellence. However, the mastery of techniques is seen as a means, not an end; the end of education in the arts is the combined exercise of creative imagination and technical virtuosity.



College of Graphic Arts and Photography

RIT's College of Graphic Arts and Photography has a worldwide reputation for the first-rate preparation it offers its students.

The college has three main divisions: The School of Photographic Arts and Sciences; the School of Printing; and the Technical and Education Center of the Graphic Arts. Faculty are experts in their fields and students work in laboratories with equipment of unsurpassed quality and variety. Students develop their creative abilities as well as technical competence.

In the School of Photographic Arts and Sciences, degrees are offered in professional photographic illustration, imaging and photographic science, photographic processing and finishing management, film and television, technical photography, and biomedical photographic communications.

Biomedical photographers work closely with medical professionals in hospitals, medical centers, and other health and research institutions. RIT's biomedical photographic communications program has been developed in cooperation with the Biomedical Photographic Association, the certifying and registering professional organization of the biomedical photography field.

Students in the film and television program are introduced to still photography, film, and video before specializing. Local television stations, networks, cable franchises and commercial production houses, as well as the motion picture industry, need skilled cinematographers, editors, directors, and producers. Graduates of this program have had experience in the studio on location and with many forms of animation. The photographic processing and finishing management program combines the study of production processes and business practices. Students choosing this program learn how to produce the highest quality prints in the shortest possible time within reasonable economic limits. They also are taught how to market photo processing in a competitive market.

Students with a strong desire to understand how photography works and have an interest and aptitude in science choose the imaging and photographic science program. The courses start with a survey of the basic chemistry and physics of photosensitive systems and become more specific, providing an atmosphere that promotes independent thinking and judgment by the student. The senior research project requires students to organize and execute the experimental solution of major problems.

The primary focus of the technical photography program is the technical and managerial aspects of photography. In addition to coursework, students are required to have an internship in a professional photographic area or complete a research project. Each demands the student apply classroom education to the practical experience.

Careers open to graduates of the technical photography program include technical sales, technical writing, quality control, product development and testing, laboratory supervision, technical illustration, applied research, and audiovisual production.

The primary objective of the School of Printing is to prepare students for successful careers in printing, publishing, and allied industries. Through a combination of an up-to-date curriculum, an outstanding faculty, and well-equipped laboratories, the school maintains a position of leadership in printing education.

In addition to the Printing degree program, students can enroll in programs in Newspaper Production Management, Printing Systems and Engineering, and Printing and Applied Computer Science. A graduate program leads to a master of science degree.

The Newspaper Production Management program prepares graduates to enter the industry as production assistants, assistant production managers, assistant business managers, technical specialists with suppliers, and computer specialists. Many graduates hold management positions in the newspaper industry, as operations directors, production managers, business managers, editors, and publishers. Many others work with paper and ink makers and equipment manufacturers.

The printing systems and engineering program prepares graduates who are competent in both printing and engineering. This program integrates coursework in printing technology, printing management, industrial engineering, math/science, and general education. About one-half of the coursework is taken in the Department of Industrial Engineering, where students become adept at solving management control problems through computer modeling. Graduates of the program have been hired by newspapers, business forms manufacturers, and other firms that emphasize systems analysis in their production.

Since computers have become widely used in the graphic arts, there is a need for personnel who have an in-depth knowledge of both printing and computer science. Recognizing this need, the School of Printing, in cooperation with the School of Computer Science and Technology, established a printing and applied computer science program. Graduates of this program find careers in the areas of systems analysis, production control, custom engineering, custom training, market support, purchasing, process engineering, and production design.

All students are required to take courses in mathematics, science, and liberal arts. Co-op studies, internships, and scholarships also are available.

The Technical and Education Center of the Graphic Arts serves the graphic arts field through testing, continuing education, and dissemination of information.

Although the center primarily offers seminars and training for industry, it is an on-campus resource as well. Staff members, recruited from industry, offer realistic guidance to students.

A physical testing laboratory conducts industry-sponsored tests on inks, papers, and plates, and provides continuing education facilities for graphic arts personnel in industry and education. The information service library houses an extensive collection of graphic arts literature. The center also publishes reports on research and abstracts on literature pertaining to the graphic arts.

The college also houses two innovative centers, the Munsell Color Science Laboratory and the American Video Institute.

College of Liberal Arts

The College of Liberal Arts provides students with programs to develop their individual potential as intellectually aware and responsible human beings.

The College offers degree programs in criminal justice and social work through the School of Human Services. The bachelor of science degree program in criminal justice prepares students for entrance into careers within the criminal justice system and the public and private security sectors, and provides continuing education for men and women already pursuing professional criminal justice or security careers.

Graduates of the criminal justice program will find career opportunities in police work, courts, prisons, probation departments, parole, halfway houses, community treatment centers, customs, narcotics control, drug treatment, data processing, youth service programs, counseling, crime control planning, and research.

The social work program prepares baccalaureate-level social workers to respond to the trend in the profession toward a wider variety of social work practice roles. Since the curriculum contains a variety of social science offerings, students may choose a broad spectrum of career goals in addition to the possibility of a variety of graduate programs related to the helping services.

All liberal arts courses promote a greater awareness of psychological, social, political, and economic issues, so that students' professional training in social work is supported by a solid foundation of knowledge and theory. In addition, these academic opportunities will help students to develop those techniques indispensable to good written and oral communication and to a vigorous intellectual independence.

College of Science

The College of Science combines a foundation in facts and theory with practical work experience. Introduction to the professional scene is made early in undergraduate studies, so students will know what the world of work is like.

The College offers majors in applied mathematics, applied statistics, biology, biotechnology, chemistry, computational mathematics, biomedical computing, medical technology, nuclear medicine technology, ultrasound technology, and physics. Most of these majors offer a bachelor of science degree in either four or five years, depending on whether students participate in the co-op work experience.

Students considering careers in medicine, dentistry, optometry, osteopathy, veterinary science, or podiatry, can choose any major in the College of Science. There is no separate program for these careers, but students are counseled and assisted before applying to professional schools.

Undecided high school students are encouraged to register under the undeclared science option. Programs can be designed that will permit students to postpone a definite commitment to a particular major in science for up to a year, sometimes more, without any loss of time toward a degree.

Graduates of the biology major can become biological research specialists, studying cancer, heart disease, pharmacology, toxicology, or another area; or they can become microbiology research assistants, studying bacteria and viruses.

The bachelor's degree program in biotechnology is one of only a few in the nation. Biotechnology utilizes living organisms or their components in applied research and industrial processes. Genetic engineering, which involves the techniques of biotechnology, has the potential of solving fundamental agricultural, food production, pharmaceutical, chemical, and energy needs.

The bachelor of science degree program in chemistry prepares graduates for careers in processing, research, supervision of technical projects, and management. The program has been approved by the Committee on Professional Training of the American Chemical Society.

The applied mathematics program prepares graduates as applied mathematicians and analysts in high-technology industry and federal agencies, as well as in medical research units.

The applied statistics program prepares graduates to help solve real-world problems in business, industry, and government. A statistician determines what data are pertinent to a problem, how much data to collect, how to collect them, and how to analyze and draw conclusions from the data.

Graduates of the computational mathematics program may pursue careers in applied mathematics and computers. This program emphasizes use of the computer as a tool to solve physical problems that have been mathematically modeled.

The biomedical computing program provides basic training in science and the biomedical sciences, and specialized training in computer science. Students develop the ability to communicate with medical personnel and to use computers to solve clinical problems, laboratory analyses, instrumentation automation, and medical research.

The medical technology program prepares graduates to perform medical laboratory analyses in the fields of hematology, microbiology, clinical chemistry, immunohematology, and urinalysis.

Nuclear medicine technology involves the application of radioactive materials to the diagnosis and treatment of disease. The nuclear medicine technologist's work involves analyzing blood and urine specimens as well as those that involve the evaluation of organ function through imaging.

Ultrasound technology is a new imaging technique that uses non-ionizing radiation-high frequency sound waves, instead of x-rays, in the diagnosis of disease and in the study of the developing fetus. The ultrasound technology program prepares graduates for careers as ultrasound technologists, with specialties in obstetrical-gynecological and abdominal procedures; and for administrative, staff, or research positions in hospitals, doctors' offices, and clinics.

The physics program offers opportunities for experiences in optics, laser physics, thin films, and electronics. A major in physics can lead to a career not only in physics, but also in other diverse areas such as computer science, business, or law.

FACULTY AND PROFESSIONAL STAFF

Office of the Director

William E. Castle B.S., Northern State College; M.A., University of Iowa; Ph.D., Stanford University; Professor; Vice President for Government Relations, RIT; Director, NTID Janis Kraft Baader Certificate/Diploma, Moser College; Project Administrator for the Vice President and Director
Ute M. Duncan B.A., State University of New York College at Brockport; Special Assistant, Office of the Vice President and Director
Wendell S. Thompson B.BA, M.B.A, Rochester Institute of Technology; Assistant to the Vice President and Director

Office for Integrative Research

E. Ross Stuckless BA, University of Toronto; M.S., Gallaudet College; Ph.D., University of Pittsburgh; Professor; Director

Division of Public Affairs

Michael R. Franco A.B., Boston College; M.S., Boston University; Director
William Repp B.A, Si Bonaventure University; M. Ed., University of Rochester; Special Programs Administrator
Janet Marventano Public Affairs Assistant

Public Information Department

Marcia B. Dugan B.A, Antioch College; Manager
Emily L. Andreano A.B., tear College; M.A, Syracuse University; Public Information Specialist
Jean K. Ingham Diploma, AAS, Rochester Institute of Technology; Public Information Assistant
Ann Kanter B.A, Barnard College; Public Information Specialist
Richard E. Schmidle B.S., Syracuse University; Public Information Specialist
Kathleen Sullivan B.A, St Bonaventure University; Coordinator, Public Information Programs

Institute Relations Department

Robert K. Baker B.A, Trinity College; Manager
Ella I. Ford Coordinator, Visitors Center
Roch G. Whitman B.S., Rochester Institute of Technology; Coordinator, Marketing Outreach Programs

Career Development Programs

William E. Castle B.S., Northern State College; M.A, University of Iowa; Ph.D., Stanford University; Professor; Acting Dean

Administrative Services

Robert S. Dunne B.A., John Carroll University; M.A., CAS, University of Rochester; Management Analyst
Mark J. Rosica BA, State University of New York College at Oswego; M.S., Syracuse University; CAS., Gallaudet College; Instructor; SVP Coordinator
Gerard G. Wtfter B.A, St. Vincent College; M.Ed., Ed.D., University of Pittsburgh; Associate Professor; Research Analyst
Nancy I. Fabrize Special Assistant

Department of Faculty Development

Harry G. Lang B.S., Bethany College; M.S., Rochester Institute of Technology; Ed.D., University of Rochester; Professor; Coordinator
Mary Lou Basile BA, LeMoyn College; MA, State University of New York at Albany; Associate Professor; Teaching Improvement Specialist, Communication Emphasis
Richard L. Curwin BA, Ed.D., University of Massachusetts, Amherst; M.Ed., Boston College; Assistant Professor; Teaching Improvement Specialist
Larry K Quinsland BA, University of Wisconsin, Madison; MA, M.S., University of Wisconsin, Milwaukee; Associate Professor; Teaching Improvement Specialist

School of Business Careers

Charles A. Layne B.S., The Ohio State University; MA, Wright State University; Ph.D., The Ohio State University; Associate Professor; Assistant Dean/Director

Business Careers Counseling Services

Lee H. Twyman-Arthur BA, Indiana University; MA, Northern Illinois University; Assistant Professor; Chairperson
Delbert D. Dagle A.S., Community College of the Finger Lakes; B.S., M.Ed., C.A.S., State University of New York College at Brockport; Assistant Professor; Career Development Counselor
Kathy L. Davis B.S., M.S., State University of New York College at Brockport; Certificate, Rochester Institute of Technology; Assistant Professor; Career Development Counselor
Sara A Kersting BA, University of San Francisco; M.S., Western Oregon State University; Assistant Professor; Career Development Counselor
fitricia L. Lago B.S., Central Michigan University; M.S., University of Arizona; Assistant Professor; Career Development Counselor
Dorothea E. Schweitzer B.S., Nazareth College of Rochester; Lecturer; Career Development Counselor
Solange C. Skyer B.S., Rhode Island College; MA, Gallaudet College; Assistant Professor; Career Development Counselor

Business Occupations Department

Christine M. Licata B.S., M.S., Canisius College; Ed.S., George Washington University; Associate Professor; Chairperson
Michael F. Camardello B.BA, St John Fisher College; M.S., Nazareth College of Rochester; Assistant Professor
Marie R. Chapman B.S., M.S., Nazareth College of Rochester; Instructor
Karen K Conner B.S., MA, Bail State University; Ed.D, State University of New Ybrk at Buffalo; Professor
Harold E. Farneth BA, M.Ed, Ed.D, University of Pittsburgh; Professor
Judith Ferrari B.S, Elmira College; Visiting Instructor
Virginia M. Gosson AAS, Rochester Institute of Technology; Teaching Assistant
Sharon L. Gartrix AA.S, Monroe Community College; B.S, M.S., Nazareth College of Rochester; Instructor
Sally E. Huttemann B.S, State University of New fork at Albany; M.A., University of Rochester; Assistant Professor
Joan M. Inzinga B.S, M.S., Central Connecticut State College; Assistant Professor
Barbara J. Jurena B.S, M.S., State University of New Ybrk at Albany; Visiting Instructor
Linda F. Klafehn B.S, State University of New York, Empire State College; M.S., Rochester Institute of Technology; Assistant Professor
Edward B. Lord AAS, Rochester Institute of Tfechnology; BA, M.Ed, University of Massachusetts, Amherst; Assistant Professor
Mary Elizabeth Parker B.S, State University of New York at Albany; M.Ed, University of Vermont; Instructor
Daniel J. Pike B.S, M.BA, Rochester Institute of Technology; Instnictor
William H. Wallace B.S, United States Military Academy; M.S., State University of New York at Binghamton; C.P.A., New York; Associate Professor

Data Processing Department

Robert C. Berl AAS, Rochester Institute of Tfechnology; B.S, State University of New Ybrk; Assistant Professor; Chairperson
Donald H. Beil BA, Washington University; M.S., Washington State University; Certificate/Diploma, Carnegie-Mellon University; Associate Professor
Dianne P. Bills BA, University of Rochester; Visiting Instructor
Charles E. McLaughlin B.S, M.S., Rochester Institute of Technology; Assistant Professor
Bruce O. Peterson B.A, Northland College; M.A, Ph.D., New Mexico State University; Associate Professor
Mark Reynolds AAS, Rochester Institute of Tfechnology; Lecturer
Edward L. Scouten B.A, University of Nebraska at Omaha; MA, Gallaudet College; Certificate in Education of the Deaf, San Francisco State Teachers College; Professor Emeritus
John Sweeney B.A, M.S., Michigan State University; Assistant Professor
ftiul Lee Taylor III B.S, Georgia Institute of Tfechnology; M.S., Washington University; Associate Professor
Richard A Walton B.S, State University of New Ybrk, Empire State College; M.S., Rochester Institute of Tfechnology; Instructor

Business/Computer Science Support Department

Richard D. Orlando B.S., M.B.A., Rochester Institute of Technology; Associate Professor; Chairperson
 James L. Biser B.S., Manchester College; M.S., Michigan State University; Assistant Professor
 Jacqueline J. Christman B.S., University of Wisconsin; M.S., State University of New York College at Geneseo; M.B.A., Rochester Institute of Technology; CAS., University of Rochester; Assistant Professor
 William J. DiCicco B.S., Ithaca College; M.B.A., Rochester Institute of Technology; Assistant Professor
 Dennis C. Gwara A.A.S., B.S., M.B.A., Rochester Institute of Technology; Instructor
 Terry M. Johnson Coordinator, Interpreting Services
 Diana Pryntz B.S., M.S., Rochester Institute of Technology; Assistant Professor
 Carolyn S. Sarvis B.A., Florida Bible College; Coordinator, Interpreting Services
 Ian J. Schofield B.S., State University of New York College at Brockport; M.S., Elmira College; Assistant Professor
 Michael H. Steve B.A., University of Rochester; M.S., Ph.D., Florida State University; Assistant Professor; Instructional Developer
 Myra Wein B.A., Douglass College; M.A., New York University; Instructor

School of Science and Engineering Careers

Marie L. Raman B.S., University of Puerto Rico, Mayaguez; M.S., Rochester Institute of Technology; Associate Professor; Assistant Dean/Director
 Carl A. Spoto B.A., University of Rochester; M.S., State University of New York at Albany; N.C.C.: Associate Professor; Chairperson, Counseling Services
 Robb Adams B.A. Hope College; M.A., Eastern Michigan University; Assistant Professor; Career Development Counselor
 Kathleen J. Chiavaroli B.A., State University of New York College at Oswego; M.S., State University of New York College at Brockport; N.C.C.; Associate Professor; Career Development Counselor
 Vernon W. Davis B.A., Temple University; M.Ed., Gallaudet College; Associate Professor; Career Development Counselor
 Margaret A. Hoblit B.A., San Jose State University; M.S., California State University at Sacramento; Assistant Professor; Career Development Counselor
 Jane E. Mullins B.A., MA, Gallaudet College; N.C.C.; Assistant Professor; Career Development Counselor

Applied Science/Allied Health Department

Frederic R. Hamil A.A.S., State University of New York Agricultural and Technical College at Alfred; B.S., State University of New York College at Fredonia; M.S., State University of New York College at Brockport; Associate Professor; Chairperson
 Patrick G. Coyle Assistant Professor; Optical Finishing Technology Program Director
 Marilyn G. Fowler R.R.A., St. Francis Hospital, Wisconsin; Certificate, School for Medical Records Librarians; B.S., Empire State College; Associate Professor; Medical Record Technology Program Director
 Henry P. Maher Certificate/Diploma, LaSalette Seminary; B.A., Assumption College; M.S., Northwestern University; M.S., Rochester Institute of Technology; Ph.D., Florida State University; Associate Professor
 Cynthia Mann A.R.T., A.A.S., Rochester Institute of Technology; Lecturer
 John W. Monna Certificate/Diploma, Rochester Institute of Technology; Instructor

Beverly J. Price A.A.S., State University of New York Agricultural and Technical College at Alfred; B.S., M.S., Rochester Institute of Technology; Registered Medical Technologist; Associate Professor
 Dale L. Rockwell B.A., Clark University; B.S., Gallaudet College B.S., M.S., Rochester Institute of Technology; MA, Wesleyan University; Associate Professor
 Leoba A. Schneider B.S., St Francis College; M.S., University of Notre Dame; Registered Medical Technologist; Associate Professor
 David Ttempleton B.A., Wittenberg University; M.A., Northwestern University; Assistant Professor
 Douglas L. Wachter A.A.S., Coming Community College; B.S., State University of New York College at Brockport; M.S., Rochester Institute of Technology; Instructor
 Edna G. Wilkinson A.A.S., Rochester Institute of Technology; B.S., State University of New York, Empire State College; Associate Professor
 Jonona S. Young A.A.S., B.S., Rochester Institute of Technology; M.S., University of Rochester; Registered Medical Technologist; Associate Professor

Construction Technologies Department

Hugh P. Anderson B. Arch., Massachusetts Institute of Technology; AW, Licensed Architect; Associate Professor; Chairperson
 Julius J. Chiavaroli B. Arch., University of Notre Dame; M.B.A., Rochester Institute of Technology; AIA, Licensed Architect; Associate Professor
 James D. Jensen B. Arch., Rensselaer Polytechnic Institute; M.S., Rochester Institute of Technology; Licensed Architect; Associate Professor
 Barry M. Keesan; B. Arch., Syracuse University; M.B.A., Rochester Institute of Technology; Licensed Architect; Associate Professor
 Robert L. Keiffer B.S.C.E., Clarkson College of Technology; M.S.C.E., Syracuse University, ASCE, Professional Engineer; Associate Professor
 Edward J. McGee A.A.S., Monroe Community College; B. Tech., M.B.A., Rochester Institute of Technology; Assistant Professor
 Ernest L. Risky B.L.A., State University of New York College of Environmental Science and Forestry at Syracuse; M.S., Rochester Institute of Technology; ASLA Licensed Landscape Architect; Assistant Professor

Electromechanical Technology Department

Dominick J. Fantauzzo B.E.E., M.E.T., Rochester Institute of Technology; Associate Professor; Chairperson
 Herbert M. Berry B.E.T., Rochester Institute of Technology; Assistant Professor
 David Lawrence A.A.S., B.E.T., University of Akron; Instructor
 Robert A. Moore B.S., M.S., Rochester Institute of Technology;
 Robert O. Naess B.E.E., Marquette University; M.E.T., Rochester Institute of Technology; Assistant Professor
 Anthony E. Spiecker A.A.S., B.E.T., M.E.T., Rochester Institute of Technology; Assistant Professor



Industrial Technologies Department

David H. Swanson B.A., College of Wooster; M.Ed., Ph.D., Uxas A&M University; Associate Professor; Chairperson
 Eder M. Benati A.A.S., Rochester Institute of Technology; B.S., State University of New York College at Utica-Rome; Assistant Professor
 Raymond R. Grosshans B.S., State University of New York College at Utica-Rome; M.S., Rochester Institute of Technology; Assistant Professor
 Earl G. Lake Journeyman Tool and Die Maker; Assistant Professor
 Edward A. Maruggi A.A.S., Rochester Institute of Technology; B.S., Ed.M., State University of New York College at Oswego; Ph.D., University of Minnesota; Associate Professor
 Sidney L. McQuay A.A.S., Williamsport Community College; B.S., M.S., State University of New York College at Oswego; Ph.D., University of Connecticut; Associate Professor
 Robert L. Morasse A.A.S., New York City Community College; B.S., State University of New York College at Oswego; M.Ed., Nazareth College of Rochester; Assistant Professor
 Mark S. Pauly A.A.S., Rochester Institute of Technology; Laboratory Supervisor
 Michael P. Powers A.A., B.S., State University of New York at Buffalo; M.S., State University of New York College at Brockport; Assistant Professor
 Ronald J. Till B.S., State University of New York College at Oswego; M.S., State University of New York College at Brockport; Assistant Professor

Physics and Technical Mathematics Department

Marvin C. Sachs B.S., MA, University of Rochester; Associate Professor; Chairperson
Dorothy Baldassare B.S., M.S., State University of New York College at Brockport; Visiting Instructor
Patricia Billies B.A., Nazareth College of Rochester; M.S., Rochester Institute of Technology; Visiting Instructor
Ann Bonadio B.A., Mary Washington College; M.S., University of Rochester; Visiting Instructor
Jeanne Colwell AB., Syracuse University; MAT., University of North Carolina; Visiting Instructor
Vincent A. Daniele B.S., M.S., State University of New York College at Cortland; Ph.D., Syracuse University; Assistant Professor
Paul Flugel B.A., Cornell University; Visiting Instructor
Marcia Gitelman B.A., University of Rochester; M.S., Rochester Institute of Technology; Visiting Instructor
Warren R. Goldmann B.S., Stanford University; M.S., Rochester Institute of Technology; Associate Professor
Celeste M. Hart B.A., Skidmore College; M.S., University of Rochester; Visiting Instructor
Vijayaraja Krishnan B.S., University of Calcutta; M.S., University of Puerto Rico; M.S., Rochester Institute of Technology; Assistant Professor
Judith E. MacDonald B.A., State University of New York College at Geneseo; M.S., University of Rochester; Visiting Instructor
Ykshodhara Maitra B.S., St. Xavier's College, Bombay; M.S., University of Rochester; Visiting Instructor
Raul C. Peterson B.S., State University of New York College at Buffalo; M.Ed., Gallaudet College; Ph.D., Syracuse University; Associate Professor
Victoria J. Robinson B.S., M.S., University of Illinois, Urbana; Assistant Professor
Maria Shustorovich M.S., Moscow State Pedagogical Institute; Assistant Professor
Robert W. Tkylor BA, University of Southern California; M.A., Yale University; Associate Professor

Science and Engineering Support Department

Rosemary E. Saur BA, Gustavus Adolphus College; MA, Ph.D., University of California, Santa Barbara; Assistant Professor, Chairperson
Karen M. Beach B.A., Gustavus Adolphus College; Visiting Instructor
Gail E. Binder BA, Drew University; M.S., University of Pennsylvania; M.S., Rochester Institute of Technology; Associate Professor
Dominic T. Bozzelli B.S., University of Notre Dame; M.S., Rochester Institute of Technology; M.S., CAS., State University of New York College at Brockport; Associate Professor
Thomas Callaghan B.S., University of Massachusetts; Visiting Instructor
Aaron J. Gorelick B.S., Pennsylvania State University; Coordinator, Interpreting Services
James Mallory AAS., Kent State University; B.T., Rochester Institute of Technology; Instructor
Joseph Polowe B.S., Rensselaer Polytechnic Institute; M.S., Rochester Institute of Technology; Visiting Assistant Professor
Sharon L. Rasmussen B.A., State University of New York College at Geneseo; M.S., Rochester Institute of Technology; Assistant Professor
Dixie H. Reber B.S., Milligan College; M.S., State University of New York College at Geneseo; Visiting Instructor
Glenda J. Senior B.S., University of Newcastle Upon Tyne; B.S., Rochester Institute of Technology; Visiting Assistant Professor
Elaine Tycylor B.S., State University of New York College at Buffalo; M.Ed., State University of New York at Buffalo; Visiting Instructor

School of Visual Communication Careers

Thomas G. Raco B.F.A., M.F.A., Rochester Institute of Technology; Ed.D., State University of New York at Buffalo; Professor; Assistant Dean/Director

Visual Communication Careers Counseling Services

Gail A. Rothman BA, State University of New York at Albany; M.Ed., State University of New York College at Brockport; Associate Professor; Chairperson
Gregory J. Connor B.S., Syracuse University; M.S., Rochester Institute of Technology; Assistant Professor; Career Development Counselor
James L. Kersting B.A., M.S., St. Cloud State University; Associate Professor; Career Development Counselor
William E. Moore B.A., St. John Fisher College; M.S., State University of New York College at Brockport; Visiting Instructor
Anne ten Ginkel BA, University of California, Santa Barbara; M.S., Western Oregon State University; Assistant Professor; Career Development Counselor

Applied Art Department

John W. Cox B.F.A., M.F.A., Rochester Institute of Technology; Ph.D., Syracuse University; Associate Professor; Chairperson
Paula A. Grcevic B.F.A., M.F.A., Pratt Institute; Assistant Professor
Michael L. Krembel B.F.A., M.F.A., Rochester Institute of Technology; Associate Professor
Katherine A. Voelkl B.F.A., M.S., Rochester Institute of Technology; Instructor
Michael J. Voelkl B.F.A., M.S., Rochester Institute of Technology; Assistant Professor

Applied Photography/Media Production Technology Department

Jean-Guy Naud B.S., M.S., Rochester Institute of Technology; Professor; Chairperson
Frank C. Argento B.F.A., M.F.A., Rochester Institute of Technology; Associate Professor
Omobowale Ayorinde B.F.A., Massachusetts College of Arts; M.F.A., Rochester Institute of Technology; Instructor
Janice Grosshans Lab Technician
David Hazelwood B.S., Rochester Institute of Technology; Instructor
Pasco J. Izzo B.S., Rochester Institute of Technology; Instructor
Elaine J. Milton BA, Boston University; M.F.A., Rochester Institute of Technology; Assistant Professor
Thomas J. Policano B.S., University of Rochester; M.F.A., State University of New York at Buffalo; Assistant Professor
Patricia A. Russotti B.P.S., State University of New York, Empire State College; M.S., Ed.S., Indiana University; Assistant Professor
Bary J. Siegel B.S., M.S., Rochester Institute of Technology; Associate Professor
Antonio Toscano Diploma, Atelier Frochot, Paris, France; B.F.A., Museum Art School, Portland, Oregon; M.F.A., Rochester Institute of Technology; Associate Professor
James W. Veatch AAS., Hudson Wiley Community College; B.S., State University of New York College at Brockport; M.F.A., Rochester Institute of Technology; Assistant Professor

Printing Production Technology Department

David D. Faux B.S., Millersville State College; M.Ed., Pennsylvania State University; Associate Professor; Chairperson
Clair Fyke Certificate/Diploma, Rochester Institute of Technology; Lecturer
Kenneth Hoffmann B.S., Seton Hall University; M.E., Clemson University; Assistant Professor
Michael L. Kleper AAS., B.S., M.S., Rochester Institute of Technology; Professor
Carl M. Palmer AAS., B.S., Rochester Institute of Technology; Instructor; Practicum Supervisor
Jere R. Rentzel B.S., Millersville State College; M.S., Rochester Institute of Technology; Associate Professor

Visual Communication Support Department

Zerbe Sodervick B.F.A., University of Nebraska; M.F.A., Pratt Institute; Associate Professor; Chairperson
Donald V. LaRock B.S., State University of New York College at Brockport; Coordinator, Interpreter Services
Elaine M. Matczak BA, Colgate University; M.F.A., Rochester Institute of Technology; Assistant Professor
Douglas Rea B.S., Union College, Kentucky; M.F.A., Rochester Institute of Technology; Assistant Professor
Thni Sica BA, State University of New York College at Fredonia; Coordinator, Interpreting Services
Jack Slutzky BA, Bradley University; MA, University of California, Los Angeles; Professor
Michael White B.F.A., M.F.A., Rochester Institute of Technology; Assistant Professor

Division of Communication Programs

Ronald Kelly B.S., M.Ed., Ph.D., University of Nebraska, Lincoln; Associate Professor; Acting Assistant Dean/Director
E. William Clymer AAS., B.S., M.B.A., Rochester Institute of Technology; M.Ed., Syracuse University; Assistant Professor; Instructional Developer
Ruth M. Fromm Administrative Assistant
Marsha A. Young M.S., Pennsylvania State University; Ph.B., Wayne State University; Associate Professor; Instructional Developer

Communication Instruction Department I

Victoria A. Armour B.A, M.Ed., Western Maryland College; Visiting Instructor; Manual/Simultaneous Communication Specialist

Linda M. Bement B.S., Nazareth College of Rochester; M.S., Gallaudet College; Visiting Instructor; Rehabilitative Audiologist
Kathleen E. Crandall B.A, M.A, California State University, Fresno; Ph.D., Northwestern University; Associate Professor
Richard Durity B.A, Western Maryland College; M.A, University of Colorado; Instructor; Rehabilitative Audiologist
Debra L. Evans-Kreiger B.S., M.S., State University of New York at Buffalo; M.Ed., Smith College; Instructor; Speech Pathologist

Jaclyn S. Gauger B.A, University of Massachusetts; M.A, Northwestern University; Associate Professor; Rehabilitative Audiologist

Jacquelyn F. Kelly B.S., Nazareth College of Rochester; M.S., State University of New York College at Geneseo; Associate Professor; Speech Pathologist

Ruth C. Loew B.A, Brown University; M.A, Northwestern University; Ph.D., University of Minnesota; Visiting Assistant Professor; English Specialist

Betsy H. McDonald B.A, State University of New York College at Geneseo; M.A, Ph.D., State University of New York at Buffalo; Visiting Assistant Professor; English Specialist

Roxanna B. Nielsen B.A, University of Oregon; M.A, California State University, Los Angeles; Assistant Professor; English Specialist

Linda Fialmer B.A, University of Illinois; M.A, Northern Illinois University; Assistant Professor; Rehabilitative Audiologist
Wderie R. Iaiet B.A, College of St Francis; M.S., Gallaudet College; Assistant Professor

Communication Instruction Department II

Gerald P. Berent B.A, University of Virginia; Ph.D., University of North Carolina; Assistant Professor; Writing Lab Specialist

Melody L. Bricault B.S., M.A, University of Illinois, Urbana; Instructor; Communication Assessment and Advising Specialist

Paula M. Brown B.A, University of Missouri, Columbia; M.A, Kent State University; M.S., University of Rochester; Assistant Professor; Communication Assessment and Advising Specialist

Carmella A. Chamot English Learning Center Technician
Robin Coplin B.S., M.S., State University of New York at Albany; Visiting Instructor; Speech Pathologist

Alinda M. Drury B.S., University of Houston; M.S., Ph.D., University of Rochester; Assistant Professor; Reading Lab Specialist

Katherine A. Fragassi B.A, Converse College; M.Ed., University of Virginia; Instructor; Rehabilitative Audiologist

Linda G. Gottermeier B.S., Nazareth College of Rochester; M.A, State University of New York College at Geneseo; Assistant Professor; Communication Specialist/Audiologist

Marjorie A. Jacobs Certificate/Diploma, M.S., Metropolitan Hospital, London, England; Certificate/Diploma, National Institute for the Deaf, London, England; Associate Professor; Rehabilitative Audiologist

Andrew Malcolm Diploma, fetchester Community College; B.S., M.S., Rochester Institute of Technology; Associate Professor; English Specialist

Mary McAfee Visiting Instructor; Speech Pathologist

Marilyn Mitchell-Caccamise B.A, Augustana College; Visiting Assistant Professor; English Specialist

E. Elaine Murdaugh B.A, University of California, Santa Barbara; M.A, Ph.D., Stanford University; Assistant Professor; English Specialist

John-Allen Rayne AA, San Diego City College; AB., California State University; M.S., San Diego State University; Ph.D., University of Illinois; Assistant Professor; English Specialist

Jean McKernan Smith B.S., Nazareth College of Rochester; M.S., State University of New York College at Geneseo;

Associate Professor; Speech Pathologist

James E. Stangarone B.S., Indiana University of Pennsylvania; M.S., University of Kansas; Associate Professor; Manual/Simultaneous Communication Specialist

Brenda K. Whitehead B.S., State University of New York College at Geneseo; M.A, Western Michigan University; Associate Professor; Speech Pathologist

Communication Instruction Department III

Nancy J. Atherton B.S., Ohio State University; M.A, State University of New York College at Geneseo; Instructor; Speech Pathologist

Sidney M. Barefoot AAS., State University of New York College of Environmental Science and Forestry at Syracuse; B.S., State University of New York College at Geneseo; M.S., Pennsylvania State University; Assistant Professor; Speech Pathologist

Susan J. Brannen B.A, Marist College; M.A, State University of New York College at Geneseo; Instructor; Communication Specialist/Vision and Audiology

Margaret Brophy B.A, Nazareth College of Rochester; M.S., University of Rochester; Visiting Instructor; English Specialist
Diane L. Castle B.S., Boston University; M.S., Syracuse University; Ph.D., Stanford University; Professor; Telecommunication Specialist

Peter Haggerty B.A, Wesleyan University; M.A, Rutgers University; Assistant Professor; English Specialist

Larry J. LoMaglio B.A, St. John Fisher College; M.A, University of Rochester; Ed.M., State University of New York College at Buffalo; Assistant Professor; English Specialist
Eugene Lylak B.A, State University of New York at Buffalo; M.Ed., St. Michael's College; Assistant Professor; English Specialist

Douglas J. Mackenzie B.A, State University of New York College at Oswego; M.A, State University of New York College at Geneseo; Instructor; Rehabilitative Audiologist

Dominique Mallery B.A, University of Paris, France; B.S., Western Connecticut State College; M.S., Nazareth College of Rochester; Instructor; Manual/Simultaneous Communication Specialist

Lawrence R. Pschirrer B.A, Rutgers University; M.A, State University of New York College at Geneseo; Assistant Professor; Speech Pathologist

Carol Sentiff AAS., State University of New York at Albany; Lecturer; Communication Assessment and Advising Specialist

Beth Ann Vomeigen B.A, Vfet Virginia Vfesleyan College; M.Ed., University of Louisville; Visiting Assistant Professor; Speech Pathologist

Josara Wallber B.S., Colorado State University; M.S., Idaho State University; Assistant Professor; Rehabilitative Audiologist

Communication Instruction Department IV

Bonnie M. Meath-Lang B.A, Nazareth College of Rochester; M.A, Western Illinois University; Ed.D., University of Rochester; Associate Professor; Chairperson

Stephen Aldersley B.S., University of Surrey, U.K.; M.A, Certificate of Education, University of Lancaster, U.K.; M.S., College of St. Rose; Assistant Professor; English Specialist

Allen A Austin B.A, Indiana University at Bloomington; M.A, University of Illinois, Urbana; Assistant Professor; Coordinator, Scheduling

Jacqueline Braverman B.A, University of Washington; M.A, University of Northern Colorado; Ph.D., Columbia University; English Specialist

Donna L. Burfield AA, Miami-Dade Community College; B.A, Florida Atlantic University; M.S., University of Tennessee; Visiting Instructor; Manual/Simultaneous Communication Specialist

John M. Conklin AAS., Orange County Community College; B.S., State University of New York College at Brockport; M.S., State University of New York College at Geneseo; Assistant Professor; Speech Pathologist

Karen Dobkowski B.S., New York University; M.S., Columbia University; Speech Pathologist

Michael A McMahon AA, Roger Williams College; B.A, Rhode Island College; M.S., University of Rhode Island; Associate Professor; Speech Pathologist

Nicholas A. Orlando B.S., M.S., State University of New York College at Geneseo; Professor; Speech Pathologist

Stephanie R. Polowe B.A, Wayne State University; M.A, State University of New York College at Brockport; Assistant Professor; English Specialist

Geoffrey Poor AAS., Seattle Central Community College; B.A, tear College; Visiting Lecturer; Manual/Simultaneous Communication Specialist

Pamela A. Rohland B.S., M.A, University of Texas at Austin; Visiting Instructor; Rehabilitative Audiologist

Lawrence C. Scott B.S., State University of New York College at Geneseo; M.S., Southern Illinois University, Carbondale; Assistant Professor; Rehabilitative Audiologist

Nora B. Shannon B.S., Nazareth College of Rochester; M.S., Canisius College; English Specialist

Communication Raining Department

William J. Newell B.A., St Edwards University; M.S., St. Cloud State University; Assistant Professor; Chairperson
Larry R. Arthur B.S., M.S., University of Arizona; Assistant Professor; Sign Communication Specialist
Keitha W. Boardman B.S., West Chester State College; Instructor; Sign Communication Specialist
Thelma Bohli B.S., Gallaudet College; Visiting Lecturer; Sign Communication Specialist
Karen Finch B.S., Roberts Wesleyan College; M.Ed., Canisius College; Sign Communication Specialist
Barbara E. Ray Holcomb A.A.S., Rochester Institute of Technology; B.S., State University of New Yrkc College at Brockport; Instructor; Sign Communication Specialist
Samuel K. Holcomb A.A.S., Rochester Institute of Technology; Lecturer; Sign Communication Specialist
Donna E. Pocabello B.S., Nazareth College of Rochester; M.S., Rochester Institute of Technology; Ed.D., University of Rochester; Assistant Professor; Sign Communication Specialist
Jennie L. Ryan B.S., Nazareth College of Rochester; Sign Communication Specialist

Technical and Career Communication Department

Joseph Bochner B.A., City University of New Tfork, Queens College; M.A., Ph.D., University of Wisconsin, Madison; Associate Professor; Acting Chairperson
Edward Lichtenstein B.A., Dickinson College; M.A., Ph.D., University of Illinois; Assistant Professor; Communication Assessment and Advising Specialist
Elizabeth H. O'Brien B.S., Maryhurst College; M.S., Gallaudet College; Associate Professor; Communication Specialist

Communication Support Department

George D. Silver A.A.S., Rochester Institute of Technology; Acting Manager
Charles Cordaro B.A., State University of New Yrk College at Geneseo; M.S., Rochester Institute of Technology; Applications/Analyst Programmer
Cecelia A. Dorn A.S., Auburn Community College; B.S., M.A., State University of New York College at Geneseo; Applications/Analyst Programmer
Wendy A. Hall B.A., Lake Erie College; Hearing Aid Shop Technician
Stephen Knight A.A.S., Wentworth Institute of Technology; A.A.S., Genesee Community College; Systems Programmer
Mark Luther A.A.S., Rochester Institute of Technology; Self-Instruction Lab Technician
Donald C. Redman Electronics Technician
Marjorie Schmieder B.A., Stanford University; M.S., Rochester Institute of Technology; Systems Analyst/Programmer
Daniel L. Shirley B.S., Rochester Institute of Technology; Systems Programmer

Communication Research Department

Robert L. Whitehead B.S., M.S., Brigham Ybung University; Ph.D., University of Oklahoma; Associate Professor; Chairperson
John A. Albertini B.A., Drew University M.S., Ph.D., Georgetown University; Assistant Professor; Research Associate
Brenda Aron B.A., Gallaudet College; Research Assistant
Frank Caccamise B.A., St. John Fisher College; M.S., Gallaudet College; Ph.D., University of Washington; Professor; Senior Research Associate
Carol Lee De Filippo B.A., Newark State College; M.S., Purdue University; M.S., Ph.D., Washington University; Assistant Professor; Research Associate
Susan D. Fisher A.B., Radcliffe College; Ph.D., Massachusetts Institute of Technology; Associate Professor; Research Associate
Donald D. Johnson B.S., University of Illinois, Urbana; M.A., Northwestern University; Ph.D., University of Illinois, Urbana; Professor; Communication Research
Dale E. Metz B.S., State University of New York College at Geneseo; M.S., Purdue University; Ph.D., Syracuse University; Associate Professor; Research Associate
Dolores V. Ogliia B.S., Ithaca College; Research Assistant
Ila Parasnis B.A., M.A., Nagpur University, India; Ph.D., University of Rochester; Assistant Professor; Research Associate
Vincent J. Samar B.A., M.S., Ph.D., University of Rochester; Assistant Professor; Research Associate
Donald G. Sims B.A., University of Colorado; M.S., Ph.D., University of Pittsburgh; Associate Professor; Research Associate
Joanne D. Subtelny B.S., University of Pennsylvania; M.Ed., Pennsylvania State University; Ph.D., Northwestern University; Professor; Communication Research

Division of Educational Support Services Programs

T. Alan Hurwitz B.S., Washington University; M.S., St Louis University; Ed.D., University of Rochester; Associate Professor; Associate Dean/Director
Jean Bondi-Wolcott B.S., Nazareth College of Rochester; M.S., Rochester Institute of Technology; Assistant to the Associate Dean

Educational Research and Development Department

Barbara G. McKee B.A., M.A., Michigan State University; Ph.D., Syracuse University; Associate Professor; Chairperson
Deborah C. Coggiola B.A., M.S., Ph.D., University of Rochester; Senior Research Assistant
Fred J. Dowaliby A.A., Greenfield Community College; B.A., M.S., Ph.D., University of Massachusetts, Amherst; Assistant Professor; Research Associate
Wayne M. Garrison B.A., University of Maryland; M.S., Ph.D., Purdue University; Associate Professor; Senior Research Associate
Gary L. Long B.A., University of Akron; M.A., Ph.D., T Texas Christian University; Associate Professor; Research Associate
Michael S. Stinson B.A., University of California, Berkeley; M.A., Ph.D., University of Michigan; Associate Professor; Research Associate

Interpreting Services Department

Katharine F. Gillies B.A., Oberlin College; Lecturer; Chairperson
Karen Albert B.A., Syracuse University; Interpreter Trainee
Barbara A. Amone B.S., State University of New Yrk College at Fredonia; M.S., Nazareth College of Rochester; Junior Interpreter
Nancy S. Baran-Mickle Acting Liaison Interpreter
Robert A. Barrett A.A.S., Rochester Institute of Technology; Associate Interpreter
Marie Bernard A.A.S., Rochester Institute of Technology; B.A., State University of New Yrk at Binghamton; Interpreter Thinee
Peggy A. Blevins Associate Interpreter
Peggy F. Bonati Associate Interpreter
Susan Brule Interpreter Trainee
Marc W. Clark Associate Interpreter
Carol Convertino A.A.S., Rochester Institute of Technology; B.S., State University of New Yrk College at Brockport; Interpreter Ttinee
Frank Coppola A.A.S., Onondaga Community College; Associate Interpreter
Arden L. Coulson Full Interpreter
Cynthia Cummin A.A.S., Rochester Institute of Technology; B.A., Lawrence College; Interpreter Hainee
Patricia Dawson Interpreter TVainee
Christine Deskur B.A., State University of New York at Binghamton; Associate Interpreter
Sherlea A. Dony Certificate/Diploma, Rochester Business Institute; Junior Interpreter
Jonathan Dulling Interpreter Trainee
Joy P. Duskin A.A., Gallaudet College; B.A., State University of New Yrk College at Geneseo; Junior Interpreter
Christopher D. Felo A.A.S., B.S., M.S., Rochester Institute of Technology; Professional Interpreter
Lynette Finton B.A., Augustana College; Full Interpreter
Rosemary F. Fluman B.S., Elmira College; Assistant to Coordinator, Interpreting Services
Colleen Freeman Interpreter Thinee
Laura Freeman A.A.S., Rochester Institute of Technology; Interpreter H-ainee
Laurie Gerhardt B.A., California State University; Interpreter •tainee
Sherry H. Glover Full Interpreter
Cynthia Graney A.A.S., Community College of the Finger Lakes; A.A.S., Rochester Institute of Technology; Associate Interpreter
Candy M. Grastorf A.A.S., Rochester Institute of Technology; B.S., State University of New Yrk College at Brockport; Interpreter Trainee
Melody Haines Interpreter Thinee
Paul Icone Associate Interpreter
Sam Infantino B.S., State University of New Kirk at Buffalo; M.S., State University of New Yrk College at Geneseo; Interpreter Ttinee
Peter S. Isguith B.A., University of Michigan; Full Interpreter
Jennifer Jess Interpreter Ttinee
Christine Johnson A.A.S., Community College, Denver; Interpreter Hainee
Donna Kachites A.A.S., Rochester Institute of Technology; Interpreter Trainee
Leslie King A.A.S., Rochester Institute of Technology; B.S., State University of New Yrk College at Fredonia; Interpreter TVainee
Kathleen O. LaJoi B.A., University of North Carolina; Junior Interpreter
Michael S. Levy Junior Interpreter
Denise Mann B.S., University of Wisconsin; Junior Interpreter
Ann L. McLaughlin Junior Interpreter
Patrick R. Morrison Associate Interpreter
James F. Murphy Full Interpreter
Nancy L. Nelson A.A.S., Alfred University; Professional Interpreter
Stephen A. Nelson Professional Interpreter
Darcy O'Dell B.S., State University of New Yrk College at New Paltz; Junior Interpreter
James M. Orr Full Interpreter
Elouise R. Oyzon A.A.S., Rochester Institute of Technology; Junior Interpreter

Joyce L. Pemberton B.S., University of Massachusetts;
Associate Interpreter
Evelyn Quinn B.A., Indiana University; Interpreter Trainee
Meredith A Ray BA, Marshall University;
Professional Interpreter
Lorelei L. Reed Junior Interpreter
Kathleen O. Rizzolo B.S., Rochester Institute of Technology;
Junior Interpreter
Michael J. Rizzolo B.S., Rochester Institute of Technology;
Coordinator, Interpreting Services
Werrie Ann Roger AAS, Rochester Institute of Technology;
Junior Interpreter
Richard T. Smith Full Interpreter
Kenneth L. Sumner Associate Interpreter
Christine Thomson Interpreter Ictinee
Jill Travers Junior Interpreter
Elizabeth Waughtel AS, Becker Junior College; B.S., Georgia
State University; Interpreter Hainee
Wayne Kip Webster B.A., Rochester Institute of Technology;
Professional Interpreter

Division of General Education

Bruce R. Halverson B.A., Augustana College; Ph.D., University
of Washington; Associate Professor; Assistant Dean/Director

Liberal Arts Support Department

Adele Friedman B.A., Barnard College; Ph.D., tele University;
professor; Chairperson
Eileen M. Biser B.A., Manchester College; M.S., Rochester
Institute of Technology; Assistant Professor
Laurie C. Brewer Ph.D., University of Rochester;
Assistant Professor
Daniel Crimmins B.A., Saint Joseph's College; M.A., Southern
Illinois University; Visiting Assistant Professor
Greg Emerton B.S., M.A., Central Michigan University; Ph.D.,
Western Michigan University; A.S., Flint College; M.B.A.,
Rochester Institute of Technology; Associate Professor
Loy E. GoUaday B.A., M.A., L.L.D., Gallaudet College; M.Ed.,
University of Hartford; Professor Emeritus
Ralph Hymes B.A., LaSalle College; M.A., Northern Illinois
University; Assistant Professor
Mary Amelia Kennedy B.F.A., Rochester Institute of Technology
Richard K. LeRoy B.A., College of William and Mary; M.A.,
University of Richmond; Assistant Professor
Joyce P. Lewis B.A., University of Massachusetts, Amherst; M.A.,
University of Rochester; Assistant Professor
Lorna Mittleman B.A., Reed College; M.S., State University of
New Ybrk College at Geneseo; Instructor
Pamela Ng B.A., University of Washington at Seattle; M.S.,
University of Rochester
Liza Orr Coordinator, Interpreting Services
Robert F. Panara B.A., Gallaudet College; M.S., New York
University; Professor
Rose Marie Tbscano B.S., Portland State University; M.A.,
University of Rochester; Assistant Professor
Jeanne Y&monaco B.A., M.S., Nazareth College of Rochester

Academic Department of General Education

Kandy M. McQuay B.S.W., M.S.W., Rochester Institute of
Technology; Assistant Professor; Staff Chairperson
Shirley J. Allen-Taylor B.A., Gallaudet College; MA, Howard
University; Associate Professor
Gerald S. Argetsinger B.A., Brigham Young University; MA,
Ph.D., Bowling Green State University; Assistant Professor
Julie J. Cammeron BA, Montana State College; M.Ed.,
Gallaudet College; Associate Professor
Lawrence L. Mothersell B.S., M.S., State University of New Ybrk
College at Geneseo; Canon Requirements, Colgate
Rochester/Bexley/Crozier; Professor; Chaplain
Sally Tkylor BA, Blue Mountain College

Human Services Support Department

K. Dean Santos BA, University of Minnesota, Minneapolis;
M.S.W., San Diego State University; Assistant Professor, Staff
Chairperson
Florene N. Hughes B.S., Indiana State University; B.S.W, M.S.,
Rochester Institute of Technology; Assistant Professor
Mary Ann Kehm Coordinator, Interpreting Services
Betty R. Tbnay BA, Pasadena Nazarene College; M.S.W.,
University of California. Berkeley; Associate Professor

Human Development Department

Jeffrey E. Porter B.Ed., M.Ed., University of Virginia; Ph.D.,
Washington University; Assistant Professor; Chairperson

Physical Education and Athletics

Peter J. Seiler BA, Lewis College; MA, DePaul University;
Ed.D., Illinois State University; Associate Professor;
Staff Chairperson
Nancy Hargrave B.S., Ithaca College; M.S., Indiana University;
Visiting Instructor
Janice L. Strine AAS., State University of New York Agricultural
and Technical College at Cobleskill; B.S., Empire State College;
Visiting Instructor

Psychological Services

Dianne K. Brooks B.S., Howard University; MA,
Gallaudet College; Assistant Professor; Staff Chairperson
James A. Meyer B.A., MA, University of Windsor, Canada;
Ph.D., University of Regina, Canada; Assistant Professor;
Psychologist
Donna C. Rubin BA, Rutgers University; M.S., Syracuse
University; Assistant Professor; Mental Health
Specialist/Counselor
William F. Yust BA, M.Ed., University of Rochester;
Assistant Professor; Mental Health Specialist/Counselor

Student Life

Eleanor D. Rosenfield B.S., The Ohio State University; M.S.,
Indiana University; Assistant Professor; Staff Chairperson
Barbara Chandler B.S., M.S., State University of New York
College at Brockport; Assistant Professor
Thomas Holcomb BA, Gallaudet College; M.S., Rochester
Institute of Technology; Visiting Lecturer
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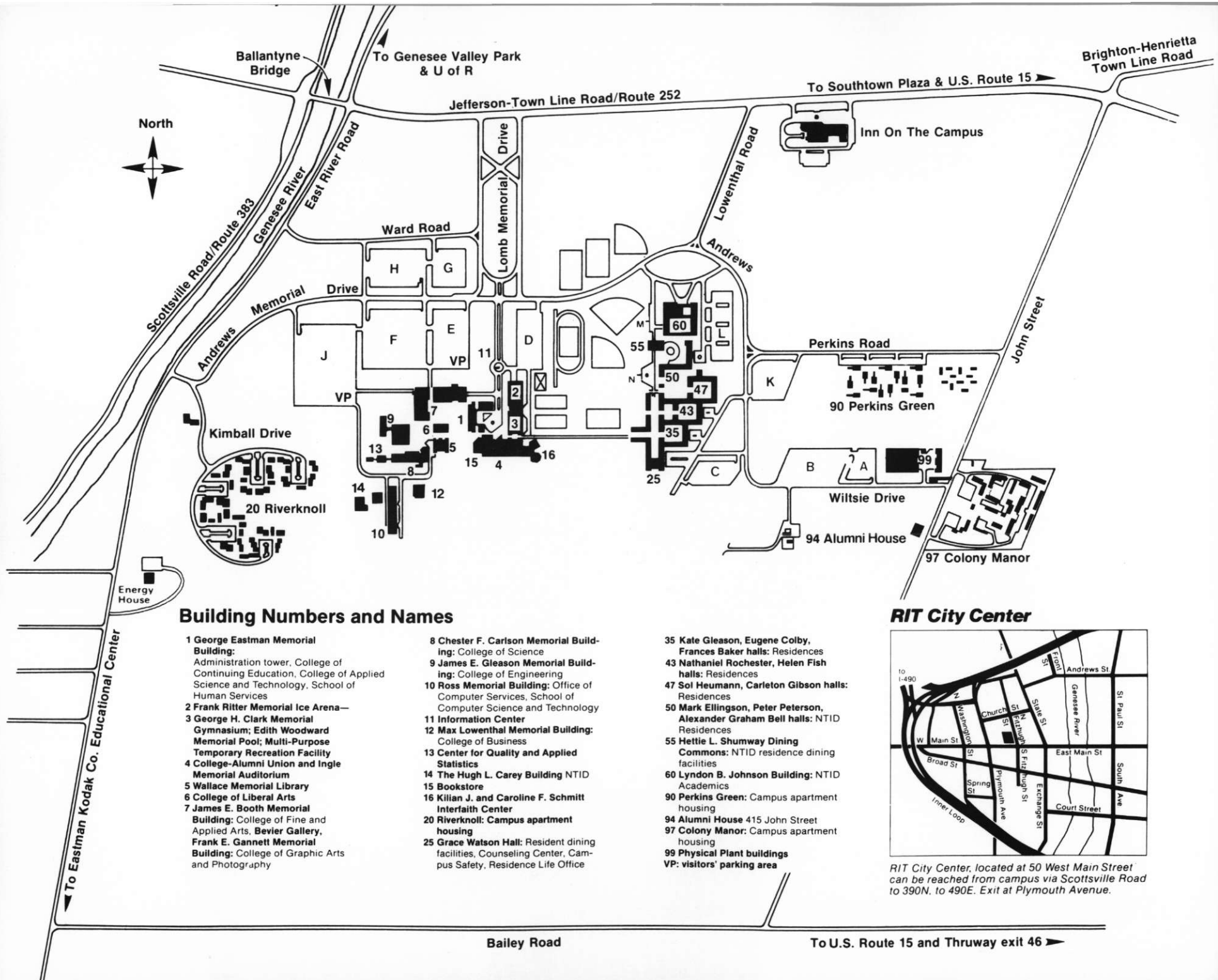
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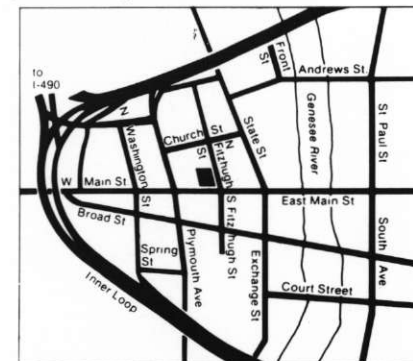
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- 1 **George Eastman Memorial Building:** Administration tower, College of Continuing Education, College of Applied Science and Technology, School of Human Services
- 2 **Frank Ritter Memorial Ice Arena—**
- 3 **George H. Clark Memorial Gymnasium; Edith Woodward Memorial Pool; Multi-Purpose Temporary Recreation Facility**
- 4 **College-Alumni Union and Ingle Memorial Auditorium**
- 5 **Wallace Memorial Library**
- 6 **College of Liberal Arts**
- 7 **James E. Booth Memorial Building:** College of Fine and Applied Arts, **Bevier Gallery, Frank E. Gannett Memorial Building:** College of Graphic Arts and Photography

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- 9 **James E. Gleason Memorial Building:** College of Engineering
- 10 **Ross Memorial Building:** Office of Computer Services, School of Computer Science and Technology
- 11 **Information Center**
- 12 **Max Lowenthal Memorial Building:** College of Business
- 13 **Center for Quality and Applied Statistics**
- 14 **The Hugh L. Carey Building** NTID
- 15 **Bookstore**
- 16 **Kilian J. and Caroline F. Schmitt Interfaith Center**
- 20 **Riverknoll: Campus apartment housing**
- 25 **Grace Watson Hall:** Resident dining facilities, Counseling Center, Campus Safety, Residence Life Office

- 35 **Kate Gleason, Eugene Colby, Frances Baker halls:** Residences
- 43 **Nathaniel Rochester, Helen Fish halls:** Residences
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- 55 **Hettie L. Shumway Dining Commons:** NTID residence dining facilities
- 60 **Lyndon B. Johnson Building:** NTID Academics
- 90 **Perkins Green:** Campus apartment housing
- 94 **Alumni House** 415 John Street
- 97 **Colony Manor:** Campus apartment housing
- 99 **Physical Plant buildings**
- VP: **visitors' parking area**

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Rochester Institute of Technology

National Technical Institute for the Deaf
One Lomb Memorial Drive
Post Office Box 9887
Rochester, NY 14623