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## ABSTRACT

Project IMPACT, a magnet program in it̄ third añ final year of funding, provided iástruction in est and itailan language skilis, as weil as bilingual instruction in mathematices. social studies and typing to approxemately 200 students of limited English proficiency in a Brooklyn, New York, high school. Nearly all program students were born in Italy: they varied in English language proficiency, native language ability, and overall academic preparedness. Transitional in nature; Project IMPACT aimed to expedite the acquisition of Engilish ianguage skills necessary for full mainstreaming within one or two years of entering the progran. Title VII funds supported administrative and support services stafe In addition to the student services provided, the progran focused on curriculum development; staff davelopment; and parent participation: Students were assessed in English languige development growth in mastery of italian, and in mathematics, science, social gtudies, and attendance : nalysis of student data from 1982-1983 indicated: (1) substantial improvement of students tested in english on Level 111 (but not Level if) of the Stantord nchievement retti (2) apssing rata for program students greater than that of non-program students ón the New York State Regents Examination in itailan; (3) achievement of program objectives in mathematics; sciance, and sociai studies; and (í) higher aftendance rates among IMPACT students than among the school population as whole. (GC)

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D.E.E. Evaluation Report
Februàry, 1984
Grant Nunter: 600-800-6.689
```

NEW UTRECHT HIGH SCHOOL PROJECT IMPACT 1982-1983

Principal: Michael Russo
Coordinator: Joseph Ryzzi

# $\overline{0}, \bar{E}, \bar{E}_{\text {. }}$ Bilingual Education Evaluation Unit Judith Stern Torres; Manager 

Prepared by:
Elly Bulkín
Michael Sica

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A SimpMary of the evalliatina
FOR PROIECT IMPACT
HFW IITREC.HT HIGH SC.HONL
\(198,7=1983\)
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This magnet program, in its thiris and final year of funding, provided instruction in E.S.L. and ltalian languaqe skills, as well as hilingual instruction in mathematics, social studies; and typing to approximately $2 n n$ studeñes of limited English proficiency in orades nine through twelve. Marly all program students were born in italy and all spoke italian at home as their first language. The students varied in Finglish languan proffciency; ahility in the native language, and overall academic preparedness.

The program is transitional in nature sine of fts major goals was to expedite the acquisition of the timgish language skills necessary for full mainstreaming within one or two years of entering the programA gradual transition into the mainstream was accomplished by initially placing stưants in one Englishoonly class, usunliy mathematics: the other mánstream coursés were added as the students" proffciency in Enqlish increased.

Titfe vill funds supported administrātive and support senices starf, cies in fitle vil funding since the lagion? year resulted in the reassignient of one curricsliw specialist añ one guidance counselōr to tax-lenfy pisitions. Instructiond services mere funded by a comination of tax-levy, Module $5 R$, and T.B. M, rumies. furriculum development was a major focus of the program in ? first two, hut not its last year. Materials were modified in computer science and developed in typing. supportive services to program studerits were provided on a regular basis by all project staff and consisted of home visits; referrals to outside agencies; And vocational guldance. nevglopment activities for staff members were done primarily on an informel basis and included consultation with teacher trainers; and attendance at workshops; professional conferences; and university courses: parents of participating students were involved through informational notices; home visits, phone calls; and participation in extracurricular activities, Low attendance at meetings of the parent/ Sturẹnt/r.ommunity advisory rommittee was rited as a major problem.

Students were assessed in finglish language develnpment. (Stanfori Achievement Tést [SATJ): $\overline{3}$ rowth in their mastery of italian (sew York Reqemts fxamination in italian); mathematics science añ social studies (teacher-made tests); and attendance (school and program recorns). nuantitative analysis of student achievement indicates that:

- Sturents tested on the sā Level ill scored significantly higher on the post-t.est; with an effect size of 1.15, indicating a substantial improvement. The post.-test. scores of tevel il students din not differ significantiy from the pre-test. results:
. . The passing rate for pregram students was oreater than that of mon-program students on the Mew York State Reqefits Examination in italian:
$=$ = Program objectives of an fin percent passing rate were achieved in the content areas of mathematics; science; and social studies in both fall and spring semesters.
-- Program sturents had a significantly higher rate of attendance than did the school population às whole.

The following recomendations are offered for extended difingual services àt New litreche:
=- Expanding and formalizing training efforts aimed at enabling teachers and staff to work most efrectively With the increased number of Hispanic amd Chinese students now entering the school.

- Focusing on curriculum development and encouraging project staff to work çōèy with those schools wich have aliready deveroped extensive materials in spanish and chinese.
$=$ Refining the progran"s record=keeping process in añ effort to improve commulcation among stáf members who will he workine with students from each of the three language groups, and tó facilfáte individaalizen sévices hásed on students' neens.

Tre production of this report, as of all O.f.E. Rilingual
 effort of permanent saff and consultents and antion to those who nanes apnear on the equer; Marquret scamia has reviewed and corrected reports; coordinated the editing and productiom process, and contributed to the quality of the work in innumerable ways. Karen thasin has spent many hours creating, correcting, and mantanng ata files. Joseph Riverá has worked intensely to produce. there, duplicate, and disseminate reports. Without their able and faithifulparticipation the unte could not have handled such a large volume of work and still priduced quality evaluation report s.

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NEH UTRECHT HIGH SCHOOL

| Location: | 160180 th Street <br> Brockly̆̈, New York 11214 |
| :---: | :---: |
| Year of Operation: | 1982-1983; third of three years of funding |
| Járget lianguage: | Itàlían |
| Number of Parifipants: | Approximatēly 200 students ēch semester |
| Princioal: | Michaél $\overline{\text { Russso }}$ |
| Coordinator: | Joseph Rizzi |

This report evaluates Project IMPACT in its third and final year of funding. Because it is an established program that has alreads been déscribed in dētàil in reports on its first two yeàrs. of operation. the following will focus on changes that have tāken place in 1982.83. and will not repeat sone of the detail contáned in previous reports.

## I. DEMOGRAPHIC CONTEXT

## COMMUNITY SETTING

New Utrecht High School is located in the Bensonhurst sectior. of Brocivn, a néăhborhood with the greatest comcentation of líaiañAmerican in the Uniced States. it is primarily d working-ciass restaental àreà with small apartment buildings and shale: and twofemily nouses. it is within wáleing distance of many stores, inclusinq various ltâlian bakepies. butchers; and ather spectalty shops: Heap several bus lines and
 live in the immediate vicintig.

Hex Utrecht is located in Jistrict 20; about 50 percent of whose incermediate and hign school students are of ltalian heritage: Students àteñ from Dykē héights; Bay Ridge; Boro Park; and Bensonhurste Although the district contains aray Jewish students, primarily in Boro Pàrk, thèy, for the most part, àttend religious schonis.

SCHOOL SETTING
Builit in 1925, the school building is adequate in general appearance, although peeling paint is a common sight in classrooms. A large athletic field adjoins the school: Thè prosram coordinator and secrētạ̄y shàrè à small office wizh the chairperson of the foreign language department. Hext
 program-related materials for staff and student use. The curriculum speciālists, fàmily assistarts, and teãher trānerjrēsource teacher usé this room as an office

New Utrecht hàs à total student body of 2,843. © of these studonts, 69 percent are white, $\mathbf{8 3}$ percent are black, $1 \overline{5}$ percent are Hispanic, and 3 percent are Asian. One of the most significant changes in the student body aber the last three years shes been the increase in hispanic students. While only a a dew dended Ner utrecht three years ago; these students now represent
 to nake New Utrecht an option school for students froi Sunset park in order to acheve greatce lintegration of the overwheliningly white student oody.

[^2]Thirty-five percent of the students are in the "law income" category according to federal poverty ćriteriai Academically, nne-third of the ssudents perform at twn gears or more helow level in reading; almost onehalf perform at this level in math.

## II. STUDENT CHARACTERISIICS

The progràm sérves approximatēly 200 students. Table 1 grēsents a breakdown of students; for whom information was provided, by sex and grade:
 and 20 in the twelfth qrade. Table 2 presents the distribution of students by age and grade. Thirty-eight were discharged during the school year.

TABEE 1

Number and Percent of Program Students by Sex and Grade

| Grade | Number <br> Male Students | Percent of Grade | Number Female Students | Percent of Grade | Total Number | Percent of All Students |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | 22 | 71 | 9 | 29 | 31 | 18 |
| 10 | $\cdot 38$ | 54 | : 33 | 46 | 71 | 42 |
| 11 | 14 | 29 | 34 | 71 | 48 | 28 |
| 12 | 9 | 45 | 11 | 55 | 20 | 12 |
| TOTAL | 83 | $49^{\text {a }}$ | 87 | $51^{\text {a }}$ | 170 | 100 |

apercent of all students.
 equally distributed in the progrant as à whole.

- Móst program students àre in the tenth grade.

Number of Students by Age and Grade

| Age | Grade 9 | Grade 10 | Grade 11 | Grade 12 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 14 | $10$ | 1 | 0 | 0 | 11 |
| 15 |  | 1x | 2 | 0 | 25 |
| 16 | 6 | $40$ | 13 | 0 | 64 |
| 17 | 4 | 13 | $2 \pi$ |  | 46 |
| 18 | 0 | 4 | 6 |  | 19 |
| 19 | 0 | 1 | 0 | 3 | 4 |
| 20 | 0 | 0 | 1 | 0 | 1 |
| TOTAL | 31 | 71 | 48 | 20 | 170 |

Overāge
Students

| Number | 10 | 18 | 7 | 3 | 38 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Percent | 32 | 25 | 15 | 15 | 22 |

Note. Shaded boxes indicate expected age range for grade.

- Twenty-two percent of the program students are overage for their gràdè.
- The highest percentage of overage students occurs in the nirith grade.
$\qquad$

Project IMPACT serves Itālian-dominānt students whe score bēlow the twenty-first percentile on the tanguage Assessment Battery (LAB) or who request to bé in the program. Nearly all program students were born in Italy. The vast majority of them, 75080 percent, have been in the United States for less than four years. Mest hadat their primary and most of their secondary education in italy. All speak italian at home as their first language. Table 3 shows the time spent by students in the bilingual program.

Students hàve a wide range of literacy in both English and Itāian.
 éstimated that ten were at à low level of líe ficiency in English ranges from no knowledge to proficient. Some students àre English dominant, but have opted to be in the program because they are ātracted to the services offered and want to be with theír friends. These students have special problems; because they fit into neither the bilingual program nor the malnstream- Their English is not strong enough for them to function successfully in the mainstream: Because they have weak native language skills and can speak Italian but not read it well; they have similar difficulties in the bilingual program. Because these students are seen as potentiā dropouts, approximately 15 of them were grouped this year in chassés in which teachers were able to work with them at their level.

TABLE 3

> Time Spent in the Bilinqual Proqram
(As of June; 1983)

| Time Spent in Bilinqual Program | Grade 9 | $\begin{aligned} & \text { Number of } \\ & \text { Grade 10 } \end{aligned}$ | $\frac{\text { Students }}{\text { Grade } 11}$ | Grade 12 | Totals |
| :---: | :---: | :---: | :---: | :---: | :---: |
| <l Acàdemic Yeãr | 1 | 1 | 0 | 0 | 2 |
| 1 Academic | 22 | 26 | 4 | 0 | 52 |
| 2 Academic years | 6 | 35 | 9 | 1 | 51 |
| $\overline{3}$ Ácàdemic Years | $\overline{0}$ | $\overline{6}$ | 34 | 1 | 41 |
| 4 Academic Years ${ }^{\text {b }}$ | 1 | 2 | 0 | 17 | 20 |
|  | 0 | 0 | 0 | 1 | 1 |
| TOTALS | 30 | 70 | 47 | 20 | 167 |

${ }^{\text {a }}$ Rounded to the nearest year.
$\overline{\text { O}}_{\text {Reflects }}^{-}$participation in previous bilingual proqram.

- Thirty-two peercent of the students hád been in the proaram fō one year or less.
- Twenty-five percent of the students had been enrolled in the program for three years.

111. PROGRAM DESCRIPTION

PROGRAM OBJECTIVES
The following are student achievement and attendance objectives
for Project IMPACT:
Objective*

1. Program students will show a siqnificant gain in reading and comprehension of the Englis力 language.
2. Program students will show a significant qain in native ianguage arts (Italian).
3. Eighty percent of program students enrolled in mathematics; science; and social studies courses will earn a passing grade.
4. Thē àttendancē rātē of program students will be significantly higher than the tōā schōlwide attendance rate.

PROGRAM PHILOSOPHY
The program is a transitional one. As the principal said, the target is to mainstream students within a year or two of entering the program. Great emphasis is put on the need for students to retain their ltalian pride and culture at the same time that they are learning English. The program receives the full support of the principal; who originally initiated bilinguai education for Italian students at New Utrecht.

[^3]ORGANIZATION AND STRUCTURE
The project coordinator is supervised by the assistant principal for foreign languages: The coordinator is; however; in charge of day-tooday program operations. Figure 1 shows how the program is orạanized within New Utrēchit.

Figupe i
Project IMPACT Organization


Supervision

- . . . . . . - Cōllabórátiōn
-9-
17

Table 4 indicates funding for instructional and non-instructional stāff.

TABEE 4
Funding for Instructional and Non=Instructional Staffa

| Title/Position | Tax Levy | Movi. 5B | Title VII | T.P.R.C. |
| :---: | :---: | :---: | :---: | :---: |
| Administrātor/ Supervisor | -2 |  |  |  |
| Bilingual Grade Advisor |  | -2 |  |  |
| Teacher: Bilingual |  |  |  |  |
| Content Area | 1.0 | . 4 |  |  |
| Teacher: E.S.L. | 1.8 |  |  | . 2 |
| Teacher: N-L.A. | -4 |  |  |  |
| Teacher: Enqlish Content Area | 1.2 |  |  |  |
| Curriculum Specialist |  |  | 2.0 |  |
| Family Assistant |  |  | 2.0 |  |
| Project Director |  |  | 1.0 |  |
| Resource Teacher/ Teacher Trainer | : |  | 8.0 |  |
| Bilingual Secretary |  |  | 1.0 |  |

${ }^{a}$ Source: High School Personnel Inventory for BilingualfE.S.L. Programs. April. 1983; Division of High Schools, New York City Public Schools.

Cūts in Title vil funding since the $1981-82$ year have resulted in the reassignment of one curriculum specialist and one guidance counsalor. Both are now working on tax-levy positions rather than as part of project stāff.

## STAFF EHARACTERISTICS

Appendix A lists characteristes of project staff: All pmoject staff is fully bilingual. Durina the past, year; teachers of industrial
 teachers are assisted by the family assistants and, periodically, by the secrétárial studies curriculum development specialistí both are available to work with individual students and, where needed, to translate material into Italian. Feither of the family assistants is assigned to specific classes oa regular basis: One of the famlly assistants does frequent home visits and is therefore often unavalable for classroan assignments. Despite its slightly reduced size during the 1982-83 yedr; the staff is extremely stāble.
IV. INSTRUCTIONAL COMPONENT

## PLACEMENT AND PROGRAMMING

Placement and programming is done on the basis of LAB test scores; persongl interviews; and teacher recommendations; The program is able to hande all eligible Italian students. Some students who are no longer enrolled in program courses continue to receive guidance servicss from the program; achievement dāta for these students àe not included in this report. Some students are énrolled only in native langagè studies coursēs. Mainstreaming usually begins with matnematics classes.

## NATIVE LANGUAGE COURSES

Table 5 lists the native language classes given in the fall and sppring semesters. All program students àre enrolled in these classes. which are designed teo improve native language skills, and in the case of Trāvel and Tourism, to provide vocational training. Classes are held for five periods each week.

TABLE 5


| Course title | No. of Classes |  | Average Class Reg- |  | Description | Curriculum or Material in Use |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fail Spring |  | Fall Spring |  |  |  |
| Italian Native Language | 3 | 3 | 27 | 26 | Survey of Ital: <br> Lit. \& Adv. <br> Gramiar | Bd. of Ed. Level $V$ |
| Travel and Tourism | 1 | 1 | 27 | 29 | Ticket réserv. business léttérs | Developed by stāff |

A membér of the evaluation team observed two $\bar{N}, \bar{L}, \bar{A}$. classes. The N.L.A. travel class was reviewing materiā from the officiā Āríne Guide by replying to questions on $\bar{a}$ worksheet and discussing the answers. Some students take it in order tocimprove their ltalian; while others take it as vocational course. Two of the 25 students registered are .ainstrean students who are taking the course as an elective. Working without a paraprofessional, the teacher used material in ltalian and English and switched back and forth frequently from ono language to the other. Itáijan was used approximately 70 percent of the time; it was used almost entirely during the first part of the ciass, with English being used increasingly thereāfter. Most of the students seemed quite proficient in English. Student language usage seemed detenined primárily by the language used by the teacher in asking a question or giving à dírection. Students were very attentive and hígnly motivated.

The N.L.A. literature class for tenth and eleventh graders was involved in an animated discussion of Come Le Foglié a play edited for third-year high school students. The discussion followed the reading aloud of à scene from the play. All of the 23 students registered were present. The ciass was conducted entirely in italian; at the end, the teacher trans= lated a few words into Engifsh. She sāid thāt at the beginning of the year two or three students hàd hàd language problems, but that they had improved.

## CONTENT-AREA COURSES

Table 6 lists all content-area courses given during the $1982-83$ year. Program students take bilingual content-area courses in mathematics, science; sociāl stưdiés; typing, and vocātional subjects: Each semester. one class is offered in each area listed five periods per week. classés

TABLE 6

Bilingual instruction in Subject Areas (Fâll)
,

| Course title | Average Register | \% of Class Time italian is Used | Paraprofessional Assistance ( $\mathrm{Y} / \mathrm{N}$ ) | \% of Materials in Native tinguage |
| :---: | :---: | :---: | :---: | :---: |
| Bilingual Typing | 25 | 50 | No | 30 |
| General Science | 24 | 40 | No | 20 |
| Jewelry Making | 21 | 30 | Yes | 25 |
| Building Tirades Metal | 19 | 30 | Yes | 20 |
| World Studiés | 27 | 50 | NO | 30 |
| Economics | 23 | 50 | No | 30 |
| Al geebrá | 17 | 50 | No | 25 |
| Math Remedial | 19 | 501 | No | 25 |
| Math Lab | 13 | 50 | No | 25 |

TABLE 6

Bilinguā Instruction in Subject Areas (Spring)

| Course Title | Arerage negister | \% of Class <br> Time fraidan is Used | Paraprofessionaî Assistance ( $\mathrm{H} / \mathrm{N}$ ) | \% of Matertals in Native Language |
| :---: | :---: | :---: | :---: | :---: |
| Wôlu history | 23 | 50 | Pés | 50 |
| American history I | 27 | 50 | Yes | 20 |
| American tistory \$1 | 25 | 50 | Yes | 20 |
| Metal Work | 21 | 50 | No | 20 |
| Biology | 27 | 50 | Yes | 30 |
| Typing | 23 | 50 | No | 50 |
| Algebrá 1 | 28 | 40 | Yes | 20 |
| Algebrā II | 27 | 40 | Yes | 20 |
| Geametry | 21 | 40 | Yes | 20 |
| Math Lab | 19 | 40 | Yes | 20 |

-15-
are taught in italian and fagish, are exclusively fof program studentis. and use materials which are appropsiate to the students reaning levels and parallel mainstream curriculum. An evaluator observed classes in each of these sunjects.

The bilinguà mathematics class is a lañománay cioss designed fō students who dre two or more years below arade level. The 12 students reqistered are in the nōnth. tenth, and eleventh grades; seven usualiy attend and four were present on the day of the onservation. sitting at ciustere desks. students morked individualis on Reqents Competency Testes
 Sthce two of the stunerits speak no Ensiosh and others have difficulty with that language: they would have serious problems in a chapter i ciass where they would have to deal simittaneously with dheif mathematics and English lanquage skills.

The bilingual social stodies ciass. an American Studes ciass for tenth and eleventh graders, spent most of the period taking auiz. The observer was, however, able te call, with the teacher and look some of the materials used. The teacher uses a Eext minimally and prefers to use Roard of education hancouts; all in Engifsh. Although he uses sone lialian. he nrefers to use Englith in ciass. He feels that the students are not all confident in Engltsh, largely because they are not reinfoted in the wise of it at home. At the same time he oftapred that only one stutient in the
 in Enqlish. At least half of the students taking the quiz chose to respond to the essay gaestions in Fngitish, rather than fin lealion.

The bilingual typing clāss is comprised of 20 students who àre àt đīfferent lānguage levels. Only ten were there on the day of the observation; as in several other classes observed on that day, attendance was lower than usual because it was the Friday after Brooklyn-Queens Day, when program students had gone on an outing to Bear Mountain. The curricūlum development specialist was present and worked individually with à few students whose facility with English was less than that of the others in the class. Stưdents were úsing new electric Coronomatic 8000 typewriters on which they were supposed to type letter in 20 minutes and
 was the text, Type Right ! Although the "do now," à few key words, and the final explanation were presented in Italian, 90 percent of the class was conducted in English.

ENGLISH AS A SECOND LANGUAGE
Table 7 lists the E.S.t. classes given during the 1982-83 year. E.S.l: is offered à five levels for five periods each week: the first four levels, basic English and speech laboratory ciassés, meet fōr doublé periods each day; the fifth lēvè meets for a single period. The E.S.i. program is tāx-levy funded. Programming for the classés hás been done on the basis of how long a student. has been in the country, although an alternative testing system for placement is being considered for september. 1983. One teacher estimated that three or four students per class were not properly placed. Piacement problems are; however, very effectively addressed by having all of the double-period $\bar{E} . \bar{S}$.L. classes meet at the same time; so that à student can be noved from one tevel to añother mithout necessitating a major program shifte

Án evaluator observed two E.S.L. classes. The teacher in the $\bar{E} . \bar{S} . L . \overline{2}$ ciass moved the students from vocabulary recognition to sentence
 in this class had been in the country for five months or less. Originally, ten or twelve were on the roster; now 24 are registered, including students who have been in the country one to three weeks. Students used a basic E.S.L. tēst, Ōrientation in American English: Rēadér $\overline{1}$. The teãchér in the E.S.t. 5 class led a discussion on how the students liked computer dating áfuér the students had copled and answered questions on their feelingss about it. The 22 students in this ciass had been placed on the recommendation of their previous teacher and were in different grades in school.
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## TABLE 7

## Instruction in English ás à Second Language and English Reading

| Course Title and Level | No. of Classes | Average Class Req: | Description | Curriculum or Material in Use |
| :---: | :---: | :---: | :---: | :---: |

Fall Spring Fall Spring

| E.S.L. 1 | 2 | 1 | 25 | 25 | nevelopment of listen- | New York City Board of Education Curpicuílum |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E.S.L. 2 | 1 |  | 27 |  | ing, speaking, reading, |  |  |
| E.S.L. 3 | 1 | 1 | 24 | 26 | and writing skills in |  |  |
| E.S.t. 4 | 1 | 1 | 23 | 24 | Eñolish | ${ }^{\prime \prime}$ | " |
| ESS.L. 5 |  | 1 |  | 23 |  |  |  |
| Speech Lā 1 | 2 | 1 | 25 | 21 | Development of fluency, |  |  |
| Speech Lab 2 | 1 | 1 | 25 | 19 | acquisition of native- |  |  |
|  |  |  |  |  | like accent; intonation |  |  |
|  |  |  |  |  | and speech patterns |  |  |

All program students take art, music; and health education in the màinstream. Tāble 8 lists mainstream courses in which progãam students were enrolled during the 1982-83 year.

A member of the evaluation team observed manstream classes in jewelry-māking and computers. Although it wās not given in thē spring 1983 semester, à bilinguàl ēlementāry jewelry coursē has been offered. Three or four program students are in the advanced ciass. Although students have to pay for some materials; the class seems very well equipped. The students wèrē vēry involyed in working on their individūal projects. Students in the computer calas were similárly motivated. The progran curriculum specialist works with the computer teacher to develop material appropriate for the bilingual students. The observer saw some of the sample progrā dēveloped by thesé students: onē wās à program on the capitol cities of ltálian provinces, another was a program on sentence formation in líalian which could help other students learn spelling, word order, and purictuation. The ciass had 15 students. Class size is partly determined by the number of Commofore computers availablé after a year of basic computer language; students can take a second year ás well ás independent study. The curficulum specialist noted that their work in computer chlasses hàd been very helpful to program stưents who later wanted to go on to technical career. trâning at the college level.

TABLE 8

## Enrollment In Maninstrean Classes

| Fall Classes | Number of Program Students Enrolled | Spring Classes | Number of Program Students Enrolled |
| :---: | :---: | :---: | :---: |
| Pre-Algebra | 22 | Pre-Algebra | 8 |
| General Math | 1 | lith-Year Prath | 2 |
| Geometry | 18 | Generà science | i 6 |
| IIth Year Math | 8 | Geology | 1 |
| 12th year Math | 1 | Civics | 2 |
| Computer Math | 7 |  |  |
| Biology | 36 |  |  |
| Chemistry | 6. |  |  |
| Physics | 1 |  |  |
| Geology | 1 |  |  |
| civics | 5 |  |  |
| American History | 20 |  |  |
| World History | 58 |  |  |

- A significantly higner number of students were enrolled in mainstream courses in the fall than in the spring semester.


## V. NON-INSTRUCTIONAL GOMPONENT

## CURRICULUM DEVELOPMENT

Cüriculum development has not been a major focus of the project in its last year of operation. Dưing the 1982-83 year; the mathematics/ computer curficulum specialist modified the lesson-by-lesson curriculum
 studies curriculum specialist developed additional exercises in typing: detailed curriculum for Typing 1 and 2 had been developed during the 1981-82 year.

By the third year of the program: project staff had completed the development or adaptation of curriculum in the following areas: civil service, stenography $\overline{1}$ and transcription, typinq, carpentry, jewelry-making, plumbing; éectricity, sheet metāl; trāvelftourism; comouter studies,
 and chemistry.

SUPPORTIVE SERVICES

- Supportive services are aiven on a regular hasís by ali project staff. One of the two family assistants visits the families of most proaram students during the school day, as well as during evenings and weekends. She notes that the families tend to feel more comfortable when she visits them than if they had to go to the school. She alse does referrals to social séricicé medicāl, and other agenciés. As lialson between the proaram ànd Brooklyn College, she facilitātes the application process and transition tō post-sécondary éducátion fō program students.

Since many of the teach irs; quidance counsolors; and administrators in the school às à whole speāk Itāliañ progrām stüdents hāve many résourcés for persontl, vocational; and educationāl ássistancé. During the evaluation visit, ${ }^{\text {the }}$ mathematićs curriculum specialist tutored a program student who had to take the R.C.T.

## STAFF DETELOPMERT

Stáff development is done primarily on an informal básis. The teacher trainer meets with teachers before a unit is presented. In working
 teacher; fō instance; migh use as an example a plant unfamilar to lualian students and thereby not be immediatély able tō anake the necessary scientific point. The teacher trajner reports meeting with social studies; mathematics, E.S.L. s science, and industriàl arts teachers. One teacher of à bilinquà class noted the absence of in-sérūce training and indicated that it would be à good thing to take place.

Deveiopment activities which take place outside the school are attendance at workshops, professional conferences, and university courses. During 1982-83; program staff attended a workshop in the field of computer science, and conferencés sponsored by the ltàlian Bilingual/bicultural Education Assoctátion; the State Association of Bilingual Education; and the Bilfagual Education Service Centēpo

In addition, one of the curriculum specialists; the teacher tràiner, $\bar{a}$ family assistant, and the secréary all attended university courses to enhance their professionā development (see Appendix $\bar{B}$ ).

## PARENTAL AND COMMUNITY INVOEYEMERT

Project stáff keeps in contact with parents through notices in Italian and English, home visits, and phone calls. Involvement in the Parent/Student/Comunity Advisory Committee was cited by the coordinator às à major problem. Although parent âttendancē wás good in the fàll, with 20 parents attending the September, Ocsober, and Novenber meetinqs, it qot progressively worse. Parent involvement is, however, demonstrated by their interest in extracurricular activities where they are wiling to help with the food, sew costumes, etc.

## AFFECTIVE DORAIM

The coordinato co cités a lower dropout rate than in the school as a whole, an increase in college applications, and an increase in partici= pation in extracurricular activitiēs ăs éspecially positive results of the program. Project staff works additional hours on à number of major extracurriculár projects in which students àre very enthusiásticàlly iñvolved. The yearly bilingual project this year included a rendfāion of Oon Giovanní, computer, industrial arts, and secretarial studies demonstra: tions, and artwork. Performed at feeder schools before its performsnce at New Utrecht, it was videotaped. The coordinator estimates that approximate1y 500-700 parents; communty peoplé; and Boàrd of Education representatives have attended it in the last three ór four years. Students ásósonancen IMPACT, the program's bilingual literary and art journal. by organizing a dance which earned \$600. On Brooklyn/Queens Day 150 students and project stāf took three chàrtered busés to Beàr Mountāin. Students àré àso

festivals. Program students also participated in the Columbus Day Parade. Students in classes are consistently attentive and generally well-behaved. In one ohserved class; a student who was disruptive was iumediately sent to the fice: Many students work after school.

## VI. FINO!NGS: STUDENT ACRIEVEMENT AND ATTENDANCE

The following section presents the results of the testing to measure student achievement, and attendance information compared with that of the schoul as a whole. The original evaluation design had to be modified in consultation with the project director because it was not always possible to obtain data for an ippropriate comparison group of non-program students. This necessitated the use of the correlated t-test model in evaluating the efficacy of certan portions of the project. Tinis data ànalytic strategy involved pre-testing students eaply in the school year and rétesting students agajn on the same measure near the end of the year. The model assesses whether ōr not tēst scōres on the post-test were significantly greater than pre-test scores. Additionally, other comparative statistics were calculated in accordance with the following reised objectives:

## Objective

1. Program students will show significant gain in reading and compremension of the English language.
2. The percentage of program students passing a siandardized native language examination will be greater than the passing rate of mainstream students.
3. Eighty percent of program students errolled in mathematics; sciance; and social studies courses wlll earn a passing grāde.
4. The attendance rate of program students School attendance register will be significantly higher than the total school-wide attendancē rate.

## Instrument

Stanford Achievement Test (Levels II and III)

Rew York Regents Examination in Italian (Levels I and III)

Teacher-developed tests

In conjunction with the first objective, pre= and post-test scores on the Stanford Achievement Test (SAT), Levels II and III, were analyzed using the correlated t-test model.

Data were incomplete or missing for 75 ( 43.9 percent) program students. Table 9 presents means, standard deviations; and t-test résults for both of the two SAT levèls. Students taking lévè ilí exams scored significantly higher on the post-test (p<.0001). Level ll Students' post=tests did not differ significantly (p=.228) from pre= tests, despite a very large mean difference (32.83). This is a direct result of the small sample size. which tends to inflate the standard errōr.

Añother index of improvement; thē ēffect size was computē by dividing the difference between the means by the standard deviation of the differences between pre-test and post-test scores for each individual. This provides an index of improvement in standàrd deviation units and a change of 0.5 standard deviations or higher is generally considered to be à meaninaful change. the effect size fō tevel lll students was 1.15, indicating a substantial improvement in postotest scores. 'Additional analysis were performed on Level lll students to determine if differences existed among the different grade levels of students faking the examination. As evidenced in Table g; post-test scores were significantly Éffect sizes were iarge for ali grades, all greater than 1.03 , indicatinq substantià improvement à each grade level, particuiarly at arãe 9.

## English Reading Achievement

## Significance of Mean Yotal Raw Score Differences Between Initial : and Final Test Scores óf Students with full lastructional Ireatment <br> on the Stanford Achiepement Test (SAT)

Test $\quad \frac{\text { Pre-Test }}{\text { Standard }} \frac{\text { Post-Test }}{\text { Standerara Mean } \text { Corr. i. . Level of Effect }}$ levē Gràde I. Mean dēviation Mean Deviàtion Differencè Pre/post Test significance size

II $\begin{array}{llllllllll} & 6 & 114.7 & 32,48 & 147.5 & 23,02 & 12,83 & .579 & 3.0 & .228 \\ \text { WS }\end{array}$
$\begin{array}{lllllllllll}i & 111 & = & 90 & 122.4 & 23.67 & 136.62 & 20.1 & 14.18 & .854 & 10.91 \\ \text { 亿.0000 } & 1.15\end{array}$ Breakdown by grade for tevel 111

| 111' | 9 | 14 | 121:93 | 23.74 | 138,36 | 18882 | 16.43 | .902 | 5;80 | <000 | 1.55 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 111 | 10 | 52 | 122,60 | 22,94 | 136.67 | 19,67 | 14.07 | .834 | 8.0 | <,001 | 1.11 |
| III | 11 | 17 | 120.94 | 26.08 | 131,58 | 22.3 | 10.64 | . 938 | 4.12 | <.001 | 1.14 |
| III | 12 | 1 | 126:00 | 27,96 | 145,00 | 21.3 | 19,00 | . 752 | 2.73 | -011 | $1: 03$ |

MATIVE LANGUUAGE READIMG AND COMPREHENSION (ITALIANM)
nata for the second objective was provided by the project
coordinator. The $\overline{100}$ percent pésing rate for progian students ( $n=\overline{2} \overline{4}$ ) was greater than that of non-program students ( $80 . \overline{2}$ percent; $n=81$ ) on the Mew York State Reqents Examination in Italian:

STUDENT ACHIEVEMENT IN MATHEMATICS, SCIENCE, AND SOCIAL STUDIES
Table 10 presents passing rates for program students in each of the content areas of course instruction for both the fall and spring. Frogram objectives of àn 80 percent passing rate were achieved for all three content areas in both semesters.
: Pāssing rātés for the fāll and spring teñs, réspectivèy were 35.7 percent ard 100 percent in mathematics; 97.3 percent and 92 percent in science, ànd 95.7 percent and 92.7 percent in social studies.

## TABEE 10

Nuiber of Italian-Speakigq Program Students Attending Courses and Pērcent passsing Teàcher-Node Exdaininations in Content-Area subjects


 eleventh- and twelfth-year mathemtics; and compiter mothematics. Sclence courses Include general science, biology; ehemistry, physics, and geology. social studies courses include civies, economics, worid geography; American history; and world history.

## STUDENTT ATTENDANCE

The average total attendance rate of program students ( $n=160$ ) is presented and compared with the school-wide attendance rate ( $n=\overline{3}, 445$ ) in Table 11. Since the attendance rate for program students was inçluded in the school-wide attendance rate; a special procedure was used in computing the usual statistical test for a significant difference between two proportions: In the $\underline{z}$ test formula below, $\underline{p}$ is the attendance rate for program students and $\underline{P}$ is the expected proportion (the school's attendance ratée). At tendance is considered a dichotonous variable ás it has the two values "present/absent."


In conjunction with the fourth objective, as presented in Table 11. program students had a significantly higher rate of attendance (p<.05) than did the school population as à whole.
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TARLF. 11

Significance of the Difference Retween the Attendance Percentage of Program Students and the Attendance percentage of the School

| Grade | Number of Students | Mean Percentage | Standard <br> neviation |
| :---: | :---: | :---: | :---: |
| 9 | 27 | 79.37 | 17.96 |
| 10 | 69 | 89.96 | 19.68 |
| 11 | 47 | 86.30 | 14.17 |
| 12 | 17 | 88.35 | 5.93 |
| TOTAL | $16 n$ | 83.an | 16.96 |
| Average School-wide Attendance Percentage: |  |  |  |
| Percentage <br>  |  |  |  |

## VII. CONCLUSIONS ANO RECOMMENDATIONS

Project IMPACT is an effective, well=established program that has been of greal benefit to its students. It recently received a ford Foundation grant for excellence, along with two other special programs at New Utrecht. Since project funding ended with the 1982-83 year, the school used Project IMPACT as à base fô à new funded project for the 1983-84 year which will serve Italian, Hispanic, and Chinese students. Based on the information provided by the administration; faculty; and students; as well as data collected from interviews and classroom observa= tions; the following recomendations are offered fer extended bilingual services at New Utrecht:

1. Teacher and staff training efforts need to be expanded and formalized. While project stāff and much New Utrecht faculty and àdministration have a long histosy of service to itālan sacudents ànd àre justifiably proud of that record, the increase of hispanic and Chinese students is à relatively racent phenomenon at the school. Thus far, project staff has been valuable in sensitizing nait-italians to the particūlar cūlū̃āl background and probiens of ítálian students. With the new project, however, hey will themselves need such training to work most effectively with Hispanic and Chinese students. Similar training will also need to be done outside the program itself. Whereas Hispanic and Chinese staff members will be added, their presence in itself will not addréss the major changes the program will have to undergo in its transition from an Italian program to one seeking to serve three language groups.
2. Like staff training, curriculum development has not been a major programmatic focus during 1982-83 year: The expanded program will make this too a priority. In addition, it will encourage project staff to work closely with those schools which hàve àlreãdy hàve developed extensive curpiculum materiál in Spanish and Chinese.
3. The need remains for the program to refine ís record= keeping process. Ás thà program population ceases to be homogeneous. incivíduàl stāff members will no longer have à comprehensive overview of students successes and problems; different staff members will be working intensively with students from each of the three language groups. Improved record-keeping will therefore be an even more necessary means of commuication among those working on the oroject; and facilitate iñividualizè services based on studentes' nēeds.

## VIII- APPENOICES

## APPEROLX A

## Staff characteristics: Professional and Paraprofessional Siaffs

Family Assistant

Family Assistant

Bilingual Secretary

## APPENDIX B

University Courses Attended by Staff (Professional and Paraprofessional)

| Staff | Institution | loursse | Frequency |
| :---: | :---: | :---: | :---: |
| Professional | New York University | Romance Linguistics | once à week |
|  | Long Island University | Bilingual Ādmiñ. School Lan | twicè à weēk twice a week |

Paraprofessional Kinsborough C.C.

Kingsborough $\bar{C} . \bar{C}$.

Sci. of Natrition twice a week intro. to Sociology twice a week

Sció of Rutrition 2 ñights/week
Political Sci. $\quad 2$ nights/week
Mathematics 4 days/week
Health Education 4 days/week


[^0]:    *     * 

    Reproductions supplied by EDRS are the best that can be made from the original document.

[^1]:    New York City Pubilic Schools Office of Educational Evaluation Richard Guttenberg, Director

[^2]:    *ource: Pupil gethnac Composition Redort. October, 1g82; Office of Stucent information Services. Board of Education of the ciey of New york.

[^3]:    *Thése objectives are rēvisions of those originally proposed in 1980. They were modified in consultation with the project director to make possīle their measurement on the basis of obtainable data.

