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Georgia Tech Fact Book



GEORGIA INSTITUTE OF TECHNOLOGY ATLANTA, GEORGIA 30332

OFFICE OF THE PRESIDENT

December 15, 1979

Dear Colleague:

This is the first publication of an annual <u>Georgia Tech Fact Book</u> which is published to provide general information and answer questions asked frequently about the Institute.

The information in the book should be useful in responding to questionnaires, research proposals, and questions from prospective faculty, staff, and others interested in learning more about Georgia Tech.

This pilot issue is distributed only on a limited basis to campus administrators and others associated closely with the Institute, and I request your assistance in helping to evaluate its content and format. A short questionnaire is attached and I ask that you complete and return it to the Office of Institutional Research. Your comments and suggestions will be most useful in producing future issues.

I am pleased that we have made this start to disseminate information about Georgia Tech, and I look forward to receiving your comments.

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	Since this is the first edition of the Fact Book your response	to this questionnaire is neede
)	that next year's book will better serve your needs.	,
	Please return this in the next few days to:	
	Sara Dryden Institutional Research Georgia Tech	
	What is your general assessment of the Fact Book?	
	What will you use the Fact Book for?	
	a. institutional statistical reference () b. recruitment manual () c. public relations tool () d. research proposals () e. otherexplain	
	If you could change anything in the book what would you chang	e?
	What did you think of the faculty information?	The chart?
	a. enough () b. too much () c. too little ()	a. needs more charts () b. needs no charts ()
	The student information? The employee information?	The tabular data?
	a. enough () a. enough () b. too much () b. too much () c. too little () c. too little ()	a. enough () b. too much () c. too little ()
•	Are there any other areas of information you would like to see	e included in next year's book?

6. How many copies of next year's book will you need?_____

Georgia Tech Fact Book

1978-79 Georgia Tech Fact Book Edited by Sara L. Dryden Office of Institutional Research Georgia Institute of Technology Atlanta, Georgia 30332 (404) 894-3311

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A History

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With two buildings on a four-acre campus, the Georgia School of Technology officially opened its classroom doors on October 7, 1888, three years after it was chartered by the state of Georgia in 1885. Eighty-five students enrolled that first October, 129 overall the first year, to pursue degrees in the only major offered, mechanical engineering. Even then Tech courses were difficult to master as only 28 members of the original October class earned degrees.

In the next few years degrees were offered in electrical engineering, civil engineering and textiles. Gradually the curriculum broadened and now Tech students can choose from 30 major fields in engineering, science, business, and architecture at the bachelor's, master's and doctorate degree levels.

The Georgia School of Technology officially became the Georgia Institute of Technology on July 1, 1948. At the same time Tech's first two colleges were formed, the College of Engineering and the General College. Since then the General College has changed its name to the College of Science and Liberal Studies and the Colleges of Industrial Management and Architecture have been added. The College of Architecture is the most recent, having been elevated from a school in 1975. The College of Engineering is by far the largest of the four.

The general growth and diversity of Tech is reflected in its ever-expanding student population. For the first time, in Fall 1978, more than 11,000 students are enrolled. Yet it wasn't until 1962 that a coed first appeared on the main campus of Georgia Tech to pursue an engineering degree.

Women at Tech have come a long way, comprising almost 20 percent of the 1978-79 student body. During that year women also served as president of both the undergraduate and graduate student bodies.

Black Americans first arrived on campus in 1961 and now more than 600 are enrolled. Of publicly-supported institutions Tech ranks first nationally per capita in the number of national achievement scholars in attendance, which are composed solely of black students.

From the original two buildings and four acres Tech has grown to 127 buildings on 301 acres in the heart of downtown Atlanta. In the last 25 years 250 acres of this land have been acquired and 45 buildings have been erected.

Source: Director of Public Information

Statement of Purpose

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The purpose of the Georgia Institute of Technology in the broadest sense, is to contribute to the fulfillment of the educational needs of the State of Georgia. In the pursuit of this objective, the Georgia Institute of Technology is dedicated to the advancement of scientific and technical knowledge and achievement in a socially and culturally relevant framework.

It shall strive for excellence in teaching and scholarship, and for innovation in research and service.

It shall strive to provide an educational environment that will encourage and assist students to develop fully their capabilities both as professionals and as human beings. It shall provide an environment for the physical development and well-being of its students.

It shall press vigorously for the discovery and generation of new knowledge, to investigate ways of applying such knowledge innovatively for the benefit of society and mankind, and to foster the development of creative skills required for the design and development of new tools, objects and ideas.

It shall provide undergraduate, graduate, and continuing education programs and carry out basic and applied research in its areas of special competence.

It shall also provide, through the Southern Technical Institute, technological training in its areas of special competence to meet those needs of qualified students and their potential employers which can be satisfied by two- to four-year programs.

It shall provide service to the society of which it is a part through its educational and research programs and, to the extent possible without impairment of these programs, through applications of its research, development, design, and management capabilities.

Source: President (approved by the Board of Regents April 10, 1973)

Institutional and Professional Accreditation

Institutional Accreditation

Southern Association of Colleges and Schools

Professional Accreditation

The Accreditation Board for Engineering and Technology has awarded basic accreditation to the four-year engineering programs leading to bachelor's degrees in the following fields:

aerospace engineering

engineering science and mechanics

ceramic engineering

industrial engineering

chemical engineering

mechanical engineering

civil engineering

nuclear engineering

electrical engineering

textile engineering

Advanced level accreditation has also been given to the programs leading to the master's degree in the following fields:

aerospace engineering

mechanical engineering

ceramic engineering

metallurgy

civil engineering

nuclear engineering

electrial engineering

sanitary engineering

industrial engineering

textile engineering

The program leading to the degree Master of Architecture is accredited by the National Architecture Accrediting Board.

The curriculum leading to the bachelor's degree in chemistry is accredited by the Chemical Society.

The College of Industrial Management is accredited by the American Assemby of Collegiate Schools of Business.

Although no accrediting agency has yet been established in the field of health systems the School of Health Systems has been admitted to associate institutional membership in the Association of University Programs in Health Administration for future accreditation review.

Source: Vice President for Academic Affairs

Administration

Joseph M. Pettit

James R. Stevenson Thomas E. Stelson Gene M. Nordby P. Warren Heemann Clyde D. Robbins

William L. Fash
Williams M. Sangster
Charles E. Gearing
H. S. Valk
Walter O. Carlson
James E. Dull
Frank E. Roper

College of Sciences and Liberal Studies

Col. James L. Priest
Col. Wayne B. Davis
John W. Crenshaw, Jr.
J. Aaron Bertrand
Karl M. Murphy
Henry S. Valk
Les A. Karlovitz
Louis J. Zahn
Capt. George M. Henson
James A. Reedy
David Finkelstein
Edward H. Loveland
Jon J. Johnston

Arnold L. Ducoffe
Joseph L. Pentecost
Gary W. Poehlein
J. Edmund Fitzgerald
Demetrius T. Paris
Milton E. Raville
Harold E. Smalley
Michael E. Thomas
S. Peter Kezios
L. E. Weaver
W. Denney Freeston

Edward E. Renfro Frank H. Huff H. T. Marshall C. Evan Crosby Charles R. Johnson Howard J. Fretwell Roger E. Wehrle George Mitchell

President

Acting Vice President for Academic Affairs Vice President for Research Vice President for Business and Finance Vice President for Development and Institute Relations Vice President for Planning

Dean of Architecture
Dean of Engineering
Dean of Industrial Management
Dean of Sciences and Liberal Studies
Dean of Southern Technical Institute
Dean of Students
Registrar

Head, Department of Air Force ROTC
Head, Department of Army ROTC
Director, School of Biology
Director, School of Chemistry
Head, Department of English
Acting Director, School of Information & Computer Science
Director, School of Mathematics
Head, Department of Modern Languages
Head, Department of Navy ROTC
Head, Department of Physical Education & Recreation
Director, School of Physics
Director, School of Psychology
Acting Head, Department of Social Sciences

College of Engineering

Director, School of Aerospace Engineering
Director, School of Ceramic Engineering
Director, School of Chemical Engineering
Director, School of Civil Engineering
Director, School of Electrical Engineering
Director, School of Engineering Science & Mechanics
Director, School of Health Systems
Director, School of Industrial Systems Engineering
Director, School of Mechanical Engineering
Director, School of Nuclear Engineering
Director, School of Textile Engineering

Non-Academic

Director, Contract Administration
Comptroller
Director, Internal Auditing Systems and Procedures
Budget Director
Director, Physical Plant
Director, Personnel
Director, Auxiliary Enterprises
Director, Bookstore

Administration

Non-Academic

Charles E. Harmon Tom Vitale Robert H. Rice Susan Langford Mary F. Peeks Dell Sikes

Donald J. Grace

James G. Wohlford

James L. Garner Jerry L. Hitt William T. Lee

John A. Wilhelm James A. Strickland Gary J. Schwarzmueller Roger E. Wehrle H. Keith Ivey

Rocker T. Staton

C. P. Reed, Jr.

E. Graham Roberts

Charles R. Vail

Melvin W. Carter

Bernd Kahn

Douglas W. Weaver

Director, Information Services

Director, Publications Director, Alumni Affairs Director, Alumni Programs Director, Alumni Placement Director, Annual Giving

Director, Engineering Experiment Station

Director, Cooperative Division

Director, Registration and Records Director, Admissions Director, Financial Aid

Director, Student Health Service Director, Student Counseling Center Director, Housing

Director, Student Center Director, New Student Orientation

Director, Institutional Research

Director, Computing Services

Director, Libraries

Director, Continuing Education

Director, Interdisciplinary Programs & BioEngineering Center

Director, Environmental Resources Center

Director, Athletics

Source: Director of Institutional Research

Degrees Offered

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The Georgia Institute of Technology offers the curricula leading to the following undergraduate degrees:

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Bachelor of Aerospace Engineering
Bachelor of Ceramic Engineering
Bachelor of Chemical Engineering
Bachelor of Civil Engineering
Bachelor of Electrical Engineering
Bachelor of Engineering Economic Systems
Bachelor of Engineering Science
Bachelor of Industrial Engineering
Bachelor of Mechanical Engineering
Bachelor of Nuclear Engineering
Bachelor of Textile Engineering
Bachelor of Science
Bachelor of Science in Applied Biology
Bachelor of Science in Applied Physics
Bachelor of Science in Applied Psychology
Bachelor of Science in Building Construction -
Bachelor of Science in Chemistry
Bachelor of Science in Economics --
Bachelor of Science in Health Physics
Bachelor of Science in Information and Computer Science
Bachelor of Science in Industrial Design
Bachelor of Science in Industrial Management
Bachelor of Science in Management Science
Bachelor of Science in Physics
Bachelor of Science in Textile Chemistry
Bachelor of Science in Textiles
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Degrees Offered

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Programs of study and research leading to the Master of Science degree are offered in the following disciplines:

Aerospace Engineering Applied Nuclear Science Applied Physics Architecture Biology Ceramic Engineering Chemical Engineering Chemistry City Planning Civil Engineering Electrical Engineering Engineering Science and Mechanics Geophysical Sciences Health Systems Industrial and Systems Engineering Industrial Management Information and Computer Science Mathematics Mechanical Engineering Metallurgy Nuclear Engineering Operations Research Physics Psychology Sanitary Engineering Textile Chemistry Textile Engineering

Source: Registrar

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Textiles

Degrees Offered

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Programs of study and research leading to the Ph.D. degree are offered in the following disciplines and areas:

Aerospace Engineering Ceramic Engineering Chemical Engineering Chemistry Civil Engineering and Sanitary Engineering Economics Electrical Engineering Engineering Science and Mechanics Geophysical Sciences Industrial and Systems Engineering Industrial Management Information and Computer Science Mathematics Mechanical Engineering Metallurgy Nuclear Engineering Operations Research Physics Psychology

Textile Engineering and Science

Student Information



Student Organizations

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Georgia Tech has more than 130 chartered student organizations which serve a great variety of student interests and needs. To become a recognized campus organization, a student group must fulfill certain requirements and must obtain approval by the Student Council and Student Activities Committee, which is composed of students, faculty members, and campus administrators. Membership in campus organizations is open to all students, and faculty and staff members who have an interest in the purpose and goals of the organization. Students who wish to join departmental honoraries must attain a minimum G.P.A. requirement. Overall academic excellence and/or outstanding leadership ability are requirements to join honor societies, which are campus chapters of national honoraries.

Categorical breakdown of organizations is as follows:

Governing Organizations - 9 Sports/Recreational Organizations - 23 Departmental-Professional Societies - 23 Departmental Honorary Societies - 16 National Honorary Societies - 8 Special Interest Groups - 39 Religious Groups - 15 Fraternities - 30 Sororities - 3

The Student Government Association is responsible for the allocation of student activity fees to campus organizations. Any chartered organization may seek funding for programs or supplies. Among those normally receiving support are the Student Center, which provides a great variety of programs and services to the student body; the BLUEPRINT, Tech's yearbook; the TECHNIQUE, the institute's award-winning student newspaper; the ERATO, Tech's literary publication; and the student-oriented radio station, WREK.

A number of other student organizations provide service to the campus community. In turn, many organizations allow students the opportunity to develop leadership skills and to have significant influence over various aspects of campus life through membership in governing organizations. The Student Government Association is the official governing body of the students. Students also serve on boards that govern the Student Center, Student Athletic Complex, dormitory system, fraternity and sorority systems, student publications, and intramural sports programs.

Organizations report changes in officers, advisors, or addresses to the organization's advisor who keeps records on all chartered student organizations. By this system, a referral service can be offered to students and others who desire information or contact-people for certain organizations.

Source: Dean of Students

Student Financial Aid

In addition to state and federal student assistance funds, Georgia Tech has received support from private industry, business, foundation and individual sources which has created a wide range of scholarship and loan awards to deserving students. In the past five years, the Basic Educational Opportunity Grant Program, which was in its second year of operation in 1974, has grown ten-fold and the total federal funds have approximately tripled. Georgia Tech has been successful in attracting National Merit and Achievement scholars; ranking first in the nation among public schools for the number of achievement scholars enrolled; second in the public sector for merit scholars; and, on a per capita enrollment basis, out-ranking number one Michigan State by more than 3 to 1. In summary, financial aid to Georgia Tech students has grown by a factor of 2.3 since 1974, enabling the institute to attract and retain more and better students who would otherwise not be able to pursue their studies here.

FIVE YEAR COMPARISON

1070 70

	1974-75 1978-79			DEDOCUT			
Georgia Tech Awards	NUMBER OF AWARDS		AMOUNT OF AWARDS	NUMBER OF AWARDS		AMOUNT OF AWARDS	PERCENT DOLLAR INCREASE
Nat'l Dir. Student Loans Supp. Ed. Opp. Grants College Work Study Program Basic Ed. Opp. Grants	565 116 121 167	\$	427,000 72,092 71,700 88,296	916 298 144 	\$	698,586 181,133 104,096 942,062	63.6 151.3 45.2 966.9
Subtotal Federal Funds	969		659,088	2,502	1	,925,877	192.2
Ga. Tech Nat'l Merit Ga. Tech Nat'l Ach.	116 3		43,533 2,100	273 48		91,601 38,081	110.4 1713.4
Subtotal Merit/Ach.	119		45,633	321		129,682	184.2
Institutional Sch. Short Term Loans Emergency Loans	530 1,574 111		281,475 393,724 5,405	851 1,654 87		573,785 562,376 5,557	103.8 42.8 2.8
Subtotal Ga. Tech Aid	3,303	1	,385,325	5,410	3	,197,277	130.8
Outside Awards							
Ga. Incentive Sch. Misc. Sch. Misc. Grants Ga. Guaranteed Loans Other Guaranteed Loans Misc. Loans	43 219 45 212 139 30		10,125 146,937 19,751 160,283 193,237 30,661	261 409 77 302 323 27	_	97,100 198,815 22,269 511,584 622,622 19,705	859.0 35.3 12.7 96.5 222.2 35.7
Subtotal Outside Aid	688	_	660,994	1,399	1	,472,095	122.7
TOTAL	3,991	2	,046,319	6,809	4	,669,372	128.2

Source: Director of Student Financial Aid

The Cooperative Plan

Since 1912 Georgia Tech has offered a five-year cooperative program to those students who wish to combine industrial work experiences with their classroom studies. The students who enroll in this program alternate their time between industrial assignments and classroom studies on a quarterly basis, completing the same course work on the campus which is completed by regular four-year students. Graduates of the program are awarded a degree in their particular field of specialization with the designation, "Cooperative Plan."

Industrial work give cooperative students an opportunity to develop their career interests and to become more confident in their choice of a career. Students are also given a chance to develop skills in human relations through their work experiences. They are paid for working in industry and are able to save a portion of their salaries which can be applied to their educational expenses.

One of the oldest employers of cooperative plan students is the Georgia Power Company. Among the more than 400 participating companies are E. I. DuPont de Nemours & Co., Inc., Lockheed Georgia Company, the Tennessee Valley Authority, the State of Georgia, General Electric Company, Westinghouse Electric Company, ITT Rayonier, Inc., Combustion Engineering, Inc., Tennessee Eastman Company, Hughes Aircraft Company, Philip Morris U. S. A., NASA, Columbia Nitrogen Company and General Motors Corporation.

Cooperative Division Five-Year Comparison

	1974-1975	1978-1979	Percent Increase
Cumulative Enrollment	1,152	1,894	64
Students Graduated	148	178	20

Source: Director, Cooperative Division

Admissions

	Admissions	Transfers	Graduate	Total
Residents of Georgia	1,190	504	285	1,979
Residents of Other U. S. States	1,014	352	407	1,773
	75	94	237	406
Residents of Foreign Countries	1,180	74	237	1,180
From Georgia High Schools				
From Other High Schools	1,099			1,099
From Georgia Colleges		509	353	862
From Other Colleges		441	576	1,017
JEPHS (Joint Enrollment Program for High Schools) 42	2		
Freshmen	2,228	119		2,347
Sophomores	. 2	380		382
Juniors		337		337
Seniors		1		1
Special (Undergraduate)	7	111		118
Graduate (M. S. programs)		793		793
Graduate (Ph.D. programs)		73		73
Special (Graduate)		63		63
Females	460	245	131	836
Blacks	178	93	42	313
Asians	13	11	11	35
Hispanics	25	23	17	65
American Indians	4	1	0	5
TOTAL	2,279	950	929	4,158

Enrollment by USA States and Territories Summer Quarter 1978 through Spring Quarter 1979

State	Total	<u>State</u>	<u>Total</u>
Alabama	228	Montana	6
Alaska	1	Nebraska	9
Arizona	13	Nevada	6
Arkansas	33	New Hampshire	7
California	67	New Jersey	307
Canal Zone	6	New Mexico	4
Colorado	22	New York	355
Connecticut	109	North Carolina	191
District of Columbia	14	North Dakota	6
Delaware	40	Ohio	163
Florida	906	Oklahoma	15
Georgia	7,130	0regon	6
Guam	1	Pennsylvania	251
Hawaii	8	Puerto Rico	117
Idaho	1	Rhode Island	25
Illinois	91	South Carolina	254
Indiana	35	South Dakota	3
Iowa	8	Tennessee	272
Kansas	9	Texas	86
Kentucky	82	Utah	1
Louisiana	104	Vermont	11
Maine	18	Virginia	256
Maryland	236	Virgin Islands	3
Massachusetts	102	Washington	12
Michigan	57	West Virginia	33
Minnesota	12	Wisconsin	33
Mississippi	30	Wyoming	1
Missouri	60		
		Grand Total	11,856

Enrollment by Foreign Countries Summer Quarter 1978 through Spring Quarter 1979

Algeria	33	Greece	27	Nigeria	20
Argentina	4	Guatemala	7	Norway	2
Austria	1	Haiti	2	Pakistan	13
Bahamas	7	Honduras	10	Panama	27
Belgium	6	Hong Kong	26	Paraguay	12
Bermuda	1	Iceland	1	Peru	4
British West Indies	2	India	58	Philippines	1
Brazil	6	Indonesia	2	Rhodesia	1
British Honduras	1	Iran	96	Rumania	1
Cameroon	1	Iraq	5	Russia	1
Canada	14	Israel	10	Salvador	12
Chile	3	Italy	5	Saudi Arabia	7
China	76	Ivory Coast	2	Scotland	1
Colombia	37	Jamaica	11	Sierra Leona	1
Costa Rica	6	Japan	10	Singapore	2
Cuba	16	Jordan	3	South Africa	4
Cyprus	2	Korea	15	Spain	1
Denmark	1	Kuwait	1	Switzerland	5
Dominican Republic	7	Lebanon	22	Thailand	18
Ecuador	28	Liberia	2	Togo	1
Egypt	12	Libya	3	Trinidad	1
England	15	Malaya	3	Tunisia	1
Ethiopia	1	Mexico	23	Turkey	11
France	1	Netherlands	4	United Arab Republic	1
Germany	27	Netherlands W. Indi	es 12	Venezuela	55
Ghana	2	Nicaragua	20	Vietnam	12

Student Credit Hours Produced 1978-79 (Summer 1978 through Spring 1979)

Unit	Lower Division	Upper Division	Graduate Division
College of Architecture	11,146	13,311	81,195
College of Industrial Management	12,395	25,234	4,938
College of Engineering	29,432	115,950	29,271
College of Science and Liberal Studies	209,321	51,095	11,979
College of Engineering			
Aerospace	1,815	2,714	2,473
Ceramic	244	1,888	544
Chemical and Metallurgy	3,382	10,010	2,103
Civil and Engineering Graphics	8,502	13,184	5,583
Electrical	3,468	32,148	6,456
Engineering Science and Mechanics	5,594	10,172	952
Health Systems	322	1,631	686
Information Systems	440	16,127	4,994
Mechanical	2,501	23,198	2,576
Nuclear	287	1,804	2,201
Textiles	2,877	3,074	703
College of Science and Liberal Studies			
Biology	3,062	1,259	333
Chemistry	26,993	8,728	2,991
English	26,520	5,524	-
Geophysical Sciences	1,902	505	1,371
Information Computer Sciences	6,245	6,002	3,253
Math	64,963	9,407	1,397
Modern Languages	9,171	2,462	-
Music	491	188	-
Physical Education	13,785	-	-
Physics	36,830	3,648	1,631
Psychology	-	7,881	922
Social Sciences*	19,359	5,491	81
Georgia Tech Total	262,294	205,590	54,383

^{*}Includes History, Philosphy of Science, Political Science and Sociology

Source: Registrar

Degrees Awarded

	1076 1077	1077 1070	1070 40
Bachelor's	<u>1976-1977</u> 1,232	1977-1978 1,336	<u>1978-197</u> 1,478
Male	1,093	1,185	1,252
Female	139	151	226
In-state	650	835	890
Out-of-state	582	501	588
Master's	501	544	557
Male	455	477	485
Female	46	67	67
In-state	137	234	233
Out-of-state	364	310	319
Doctor's	66	56	49
Male	63	54	46
Female	3	2	3
In-state	11	12	13
Out-of-state	55	44	36
All Degrees	1,799	1,936	2,079
Male	1,611	1,716	1,783
Female	188	220	296
In-state	798	1,081	1,136
Out-of-state	1,001	855	943

Georgia Tech operates a centralized placement operation serving all students for career employment as well as part-time, temporary and summer employment. Two objectives of the center are to assist students in determining career objectives and attaining career and employment goals.

The Placement Center maintains a library of general business, industry and government career and occupational information. In addition, the Placement Center keeps local and national salary data, employment patterns of Georgia Tech graduates (who hires them for what kinds of positions and where), and graduate and professional school information.

Other services of the Placement Center include seminars on the employment process, personal counseling, employment interviews and a weekly listing of visiting companies. An open resume file for employers, campus contacts with representatives of the top graduate schools, a library of information on the job market and a resume service are also available.

A student can explore career interests with more than 630 employers who deal directly with the Placement Center, usually through an on-campus interview. These employers represent a substantial number of the Fortune 500 as well as many regional organizations. Over 1600 summer, part-time and temporary positions are posted annually and 40 to 60 percent are filled by Tech students.

Alumni Placement Office

The Georgia Tech Alumni Placement Office offers its services to both alumni and graduating seniors. Funded through the Georgia Tech National Alumni Association's Roll Call contributions the placement office publishes a weekly bulletin of job opportunities.

Other services available include counseling in all facets of the employment process, with emphasis on resume preparation. This is a major phase of the office's services as many alumni who begin their job searches have not been in the job market for a number of years.

According to the College Placement Council there are only six colleges in the country that have an alumni placement service completely separate from student placement. Of these six, Georgia Tech's Alumni Placement is the only one publishing a weekly bulletin. In 1978-79 there were 53,409 bulletins mailed to 5,128 alumni. Of the 1,596 companies listed in the bulletin during the course of the year 516 listed two or more jobs.

Sources: Director, Fred W. Ajax Placement Center
Director, Alumni Placement Center

Summary of Offered and Accepted Starting Salaries for 1978-1979 Georgia Tech Graduates

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The average starting salary offers shown were computed from employer correspondence only. The average accepted salaries shown were computed from data supplied by June graduates.

Curriculum	<u>Degree</u>	High Offer	Low <u>Offer</u>	Average Offer/No.	Average June Accepted/No.
Aerospace Engineering	B M D	\$1741 1800 2166	\$1275 1800 1863	\$1530/42 1800/1 2014/2	\$1489/9
Applied Mathematics	B D	\$1350 2400	\$1350 2300	\$1350/1 2350/2	
Architecture	B M				\$1400/1 1033
Building Construction	В	\$1425	\$1300	\$1362/5	\$1241/5
Ceramic Engineering	В	\$1675	\$1474	\$1608/3	\$1612/2
Chemical Engineering	B M	\$1930 1850	\$1138 1575	\$1655/142 1734/10	\$1677/32
Chemistry	B M D	\$1405 2000 2083	\$1250 1500 1900	\$1335/3 1660/4 1977/4	\$1292/2 1625/2 2000/1
Civil Engineering	В	\$1765 1800	\$1080 1393	\$1432/134 1595/6	\$1423/42 1714/3
Economics	В				\$1250/1
Electrical Engineering	B M D	\$1900 2000 1800	\$1138 1410 1800	\$1521/217 1697/53 1800/1	\$1542/58 1775/7
Engineering Economic Systems	В	\$1333	\$1333	\$1333/1	\$1600/1
Engineering Science	В	\$1725	\$1350	\$1547/21	\$1557/5
Engineering Science & Mechanics	М	\$1800	\$1483	\$1624/11	\$1500/1
Geophysical Science	М	\$1825	\$1435	\$1630/2	
Health Systems	В	\$1450	\$1450	\$1450/1	\$1183/3
Industrial Management	B M	\$1544 1850	\$ 960 1291	\$1288/62 1545/12	\$1244/37 1715/36
Industrial & Systems Engineering	B M	\$1750 1920	\$1138 1326	\$1483/56 1650/16	\$1538/21 1463/2

Summary of Offered and Accepted Starting Salaries for 1978-1979 Georgia Tech Graduates

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Curriculum	Degree	High Offer	Low Offer	Average Offer/No.	Average June Accepted/No.
Information & Computer Science	B M D	\$1666 1933 1666	\$1166 1650 1542	\$1424/20 1806/6 1604/2	\$1440/8 1973/3
Management Science	В	\$1400	\$1166	\$1272/3	\$1217/4
Mechanical Engineering	B M	\$1775 2000	\$1138 1503	\$1512/278 1732/6	\$1540/49 1917/2
Metallurgy	M D	\$1646 2250	\$1432 2250	\$1540/5 2250/1	
Nuclear Engineering	B M	\$1735 1653	\$1057 1400	\$1361/16 1585/5	\$1403/9
Physics	B M D	\$1700 1690 1863	\$1084 1625 1863	\$1472/8 1674/4 1863/2	\$1550/4 1667/1
Sychology	B M	\$1533 1750	\$1533 1326	\$1533/1 1538/2	
Textile Chemistry	В	\$1416	\$1300	\$1358/2	\$1300/1
Textile Engineering	В	\$1541	\$1050	\$1367/17	
Textiles	М	\$1635	\$1635	\$1635/1	
		Average Off for 1978-197			
		\$/No	<i>,</i>		% Change From 1977-17
All BS degrees excluding Enginee	ering	\$1337/	106		+10.1
All B/BS degrees		\$1500/	1034		+ 7.5
B in Engineering		\$1420/	928		+ 8.0
BS/Industrial Management		\$1288/	62		+12.5
All M. S. Degrees		\$1663/	144		+ 8.6
M. S. in Engineering		\$1672/	114		+ 8.4
All Ph.D. Degrees		\$1972/	14		+ 7.5

Source: Director of Placement, Fred W. Ajax Placement Center

September 1978 Graduates

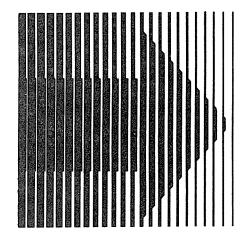
The College of: Architecture Engineering Industrial Management	Number Reporting 13 177 29	Accepted Employment # (%) 6 (46.1) 106 (59.8) 14 (48.3)	Graduate School # (%) 3 (23.1) 31 (17.5) 1 (3.5)	4 (13.8)	25 (14.1) 9 (31.0)	No Plans 2 # (%) 2 (15.4) 6 (3.4) 1 (3.5)		
Science & Liberal Studies	16	7 (43.8)	4 (25.0)	0 (0.0)	, ,	1 (6.3)		
Total	235	133 (56.6)	39 (16.6)	13 (5.5)	40 (17.0)	10 (4.3)		
The College of:	Decemb	er 1978 Grad	uates					
The Correge of:	_	. ()	. /)	1 (11 1)	0 (00 0)	1 /11 1)		
Architecture Engineering Industrial Management Science & Liberal Studies	9 163 47 20	4 (44.4) 105 (64.4) 28 (59.6) 7 (35.0)	1 (2.1)	1 (11.1) 6 (3.7) 1 (2.1) 2 (10.0)	40 (24.6) 16 (34.0)	1 (11.1) 2 (1.2) 1 (2.1) 1 (5.0)		
Total	239	144 (60.3)	18 (7.5)	10 (4.2)	62 (25.9)	5 (2.1)		
	March	1979 Graduat	<u>es</u>					
The College of:								
Architecture Engineering Industrial Management Science & Liberal Studies	7 119 31 14	5 (71.4) 99 (83.2) 23 (74.2) 9 (64.3)	14 (11.8) 1 (3.2)	2 (1.7) 0 (0.0)	3 (2.5) 3 (9.7)	0 (0.0) 1 (0.8) 4 (12.9) 0 (0.0)		
Total	171	136 (79.5)	20 (11.7)	4 (2.3)	4 (2.3)	6 (2.9)		
	June 1	1979 Graduate	<u>s</u>					
The College of:								
Architecture Engineering Industrial Management Science & Liberal Studies	27 382 108 59	15 (55.5) 276 (72.2) 81 (75.0) 24 (40.6)	55 (14.3) 12 (11.2)	34 (8.9) 3 (2.7)	2 (0.7)	15 (3.9) 11 (10.2)		
Total	576	396 (68.7)	104 (18.0)	42 (7.2)	3 (0.8)	31 (5.3)		
	1978-1979 Graduates_							
The College of:								
Architecture Engineering Industrial Management Science & Liberal Studies	56 841 215 109	30 (53.5) 586 (69.6) 14 (67.9) 47 (43.1)	110 (13.0) 15 (6.9)) 51 (6.0)) 8 (3.9)) 70 (8.3)) 29 (13.4)	24 (3.1) 17 (7.9)		
Grand Total	1,221	809 (66.3)	181 (14.9)	69 (5.6))111 (9.0)	51 (4.2)		

¹ Includes travel, return to native country, homemaker, etc.

Source: Director, Fred W. Ajax Placement Center

² No follow-up study was conducted for those classified as Other, No Offers or No Plans

General Information



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Distribution by	Rank	
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	<u>Professor</u> s			Associate <u>Professors</u>		Assistant <u>Professors</u>		Instructors	
	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>	N	<u>%</u>	<u>N</u>
Full-Time Teachers*	189	37.3	171	33.8	141	27.9	5	1	506
Part-Time Faculty	13	32.5	13	32.5	9	22.5	5	12.5	40
On Leave	5	38.5	8	61.5					13
TOTAL	207	37.0	192	34.4	150	26.8	10	1.8	559

Distribution by Highest Degree

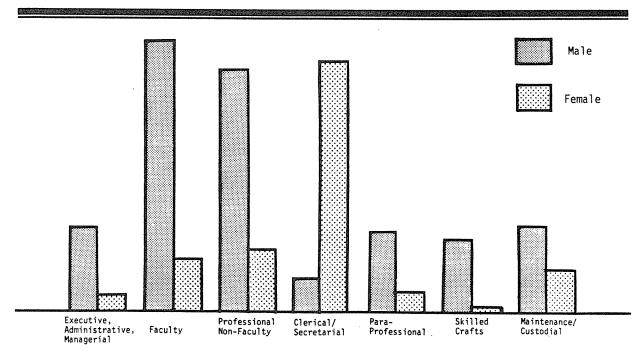
	Doct	<u>orates</u>	<u>Mas</u>	ters	Bac	chelors	<u>Other</u>	<u>Total</u>
	<u>N</u>	<u>%</u>	<u>N</u>	<u>%</u>	<u>N</u>	%	<u>N</u> <u>%</u>	<u>N</u>
Full-Time Teachers*	424	84	78	15.4	0	. 0	3 .6	506
Part-Time Faculty	24	60	11	27.5	3	7.5	2 5.0	40
On Leave	13	92.3	1	7.7	0	0	0 0	13
TOTAL	461	82.5	90	16.1	3	.5	5 .9	559

Distribution by Tenure Status

	Tei	nured	Non-	Tenured	<u>Total</u>
	<u>N</u>	<u>%</u>	<u>N</u>	%	<u>N</u>
Full-Time Teachers*	321	63.4	185	36.6	506
Part-Time Faculty	13	32.5	27	67.5	40
On Leave	11	84.6	2	15.4	13
TOTAL	345	61.7	214	38.3	559

Source: Annual Report to the Board of Regents 1978-79

^{*}Full-time teachers are those faculty who are approved by the Board of Regents in regular teaching positions who do not have administrative or research job titles; and who are at least .75 EFT. The above summarizations do not include instructional staff teaching on a per course, per quarter basis as needed.



Categorical Breakdown by Selected Areas

1978-79?

	Engine Experi Statio	ment	Collec of Engine		Colleg of Archit	ecture	Colle of Indus Manag	trial	College of Science Libera Studie	ces& al	Libr	rary	Phys Plan	ical t
	M	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	M	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>
Executive, Administrative, Managerial	24	5	27	2	4	0	5	1	20	1	4	1	5	0 = 99
Faculty	10	7	237	5	45	5	44	2	242	33	4	30	0	0
Professional Non-Faculty	413	36	48	19	2	1	1	2	39	8	0	2	15	o =58&
Clerical/ Secretarial	13	118	3	92	0	2	0	17	4	46	8	40	6	9
Para- Professional	78	12	32	4	2	1	0	0	12	8	2	0	5	0
Skilled Crafts	20	1	4	0	0	0	0	0	4	0	0	0	123	3
Maintenance/	0	0	2	0	0	0	0	0	4	0	0	0	138	69
Custodial	558	179	353	122	53	01	50	2-2	325	96	18	73	292	87

Source: Director of Institutional Research

M = 1649 Fc = 582tal = 2, 231

Financial Data

			50.777753434888888555546577888
		,	
	FY 77	FY 78	FY 7 9
REVENUE			
General Operations Student Tuitiion and Fees Gifts and Grants Indirect Cost Recovery Continuing Education Fees Other Internal Revenue Sub Total State Appropriation	\$ 9,315,162 629,929 4,950,338 433,617 1,201,008 \$ 16,530,054 22,779,579	\$ 9,993,042 1,977,522 6,383,803 463,454 1,742,666 \$ 20,560,487 28,460,885	\$ 10,773,597 913,390 9,038,118 594,278 2,195,593 \$ 23,514,976 30,818,520
Total General Operations Sponsored Operations (Research	\$ 39,309,633	\$ 49,021,372	\$ 54,333,496
and Education) Departmental Sales and Services Scholarships and Fellowships Auxiliary Enterprise	15,905,544 746,458 1,441,079 6,674,449	19,990,919 967,295 1,759,068 7,620,800	26,932,919 119,789 1,280,555 8,886,919
Total Revenue	\$ 64,077,163	\$ 79,359,454	\$ 91,553,678
EXPENDITURES			
General Operations Research Academic Support Student Services Institutional Support Operation and Maintenance of Plant Plant Fund	\$ 13,660,966 9,862,945 3,568,112 939,562 4,585,243 5,923,605 780,966	\$ 15,035,780 11,540,585 3,857,834 1,138,116 5,854,786 6,507,777 5,242,948	\$ 17,178,520 14,458,746 4,501,502 1,218,520 6,586,530 7,251,390 2,962,927
Total General Operations Sponsored Operations (Research	39,321,399	49,177,826	54,158,135
and Education) Departmental Sales and Services Scholarships and Fellowships Auxiliary Enterprise Reserve	15,905,544 746,458 1,441,079 6,674,449 (11,766)	19,990,919 967,295 1,759,068 7,620,800 (156,454)	26,932,919 119,789 1,280,555 8,886,919 175,361
Total Expenditure	\$ 64,077,163	\$ 79,359,454	\$ 91,553,678
INVESTMENT IN PLANT			
Land	\$ 8,099,994	\$ 8,344,911	\$ 9,113,760
Buildings	76,601,242	81,379,575	82,682,547
Improvements Other Than Buildings	8,674,108	8,792,367	9,466,142
Equipment	37,357,605	41,993,607	47,128,611
Library Collections	7,037,197	7,903,095	8,936,442
Total Investment in Plant	\$137,770,146	\$148,413,555	\$157,327,505

Source: Vice President for Business and Finance

The Georgia Tech Foundation, Inc.

The Georgia Tech Foundation, Inc., is a non-profit corporation which receives, administers, and invests virtually all contributions made in support of the Georgia Institute of Technology. It has been formally certified by the Internal Revenue Service of the United States and the Department of National Revenue, Taxations of Canada, as a tax-exempt organization.

The Board of Trustees of the Foundations is composed of 32 individuals distinguished by their expertise in financial management, investments, the legal aspects of such organizations, and their continuing support of the institute. Emeritus Trustees also are encouraged to attend the Board's meetings and to maintain their interest in the affairs of Tech and the Foundation.

The assets of the Foundation include more than \$15 million in endowment and over \$5 million in annually expendable gifts. Allocations of these funds are made on a monthly basis to meet the most pressing needs of the Institute, particularly at this time in its history for faculty salary supplementation, travel, and other funding needed to maintain a strong instructional staff; undergraduate and graduate student support, both for needy and exceptionally well-qualified students such as National Merit Scholars and National Achievement Scholars; and research support, including equipment.

The elected officers of the Foundation are Alvin Ferst, president; Erskine Love, vice president; and Robert Ferst, treasurer. The appointed officers, who are responsible for its day-to-day administration are Warren Heemann, vice president; and Eleanor Cain, secretary. The office of the Foundation is located on the second floor of the new L. W. "Chip" Robert Alumni/Faculty House on North Avenue.

Source: Vice President of the Georgia Tech Foundation, Inc.

Georgia Tech has the second largest engineering research program in the United States, of more than 200 universities that offer engineering degrees.

During Georgia Tech's fiscal year 1979, total funding for the institute's sponsored research programs amounted to approximately \$37.4 million from about 1,500 grants and contracts. These sponsored programs are performed by more than 800 faculty members; and over 600 graduate students are partially supported on sponsored research assistantships. Nearly 500 regular undergraduate students also are employed by Georgia Tech's research programs.

Technical areas that are subjects of these grant and contract research projects include:
energy conservation methods for industry and the private sector; solar energy systems; alternative
sources of fuels from more abundant raw materials and waste materials; pollution monitoring and
environmental conservation; improved transportation systems; bioengineering leading to advanced
medical instrumentation; digital computer technology; advanced communication and radar systems;
improved paints and coatings; noise abatement, instructional methodology; intermediate technology
for developing countries; improved meterological instrumentation; corrosion prevention and advanced
metallurgical technology; nuclear reactor design and applications; management systems; and many
other scientific investigations.

Statistically, 1978-79 appeared as follows in terms of approximate value of research program expenditures from all sources of revenue:

		1975-1976	1976-1977	<u> 1977-1978</u>	1978-1979
Architecture	\$	155,177	235,555	278,605	381,846
Engineering		5,951,050	7,574,909	8,130,024	9,851,688
Science and					
Liberal Studies		2,746,089	3,217,175	4,010,841	5,161,137
Industrial Management		310,980	346,549	394,414	322,805
Engineering Experiment					
Station	1	1,167,212	14,482,310	19,066,018	26,531,557
Interdisciplinary Programs		211,094	131,778	174,317	203,898
Radiological Safety		65,366	73,589	82,011	89,433
All other units		280,164	421,373	467,662	733,903
TOTALS	2	0,887,132	26,483,218	32,603,892	43,276,267
Proposals Submitted		1,057	1,178	1,299	1,232
Research Awards		600	720	822	786
Value in Millions	\$	17.8	24.6	31.5	37.4

Source: Vice President for Research

The Engineering Experiment Station (EES) is a client-oriented center for research and service. EES missions include: participating in national programs of science, technology and preparedness; promoting business and economic development; encouraging utilization of Georgia's natural resources; and providing technological support to the state's industry and local governments. Approximately eight out of every nine dollars spent in the operation of EES come from industrial and government contracts for accomplishing research and development tasks within the constraints of specific objectives, budgets and deadlines. The balance of funding comes from the state appropriation which is used for services in the state, developing new research intiatives and cost sharing on federal programs of importance to Georgia.

The Engineering Experiment Station also brings income to Georgia directly through contracts, attracting new industry, developing new industries, and creating new jobs in the existing industries. More than 400 EES research contracts bring over \$33 million to Georgia in FY 80, signalling the fifth consecutive year of annual growth at a rate exceeding 30 percent yearly, compounded.

EES operates a statewide extension service and maintains eight Georgia area development offices located in Albany, Augusta, Carrollton, Douglas, Gainesville, Macon, Rome and Savannah. The success of this industrial extension service in regional economic improvement and development has received international acclaim.

The Station is an integral part of Georgia Tech, reporting through the Vice President for Research. Its staff numbers over a thousand persons, with half being full-time professionals; and one-third Georgia Tech students. It is divided into eleven major operating units which conduct diversified basic and applied research programs in all the scientific and engineering disciplines and in many multi-disciplinary applications.

Research programs are directed toward enhancement of the environment and life quality through environmental technology, bioengineering and solar energy technology with considerable activity in areas that have broad applications in the community, industrial services, defense, governmental and other areas.

Source: Director of the Engineering Experiment Station

Library

The Price Gilbert Memorial Library's scientific, engineering, architectural and management collection includes 950,000 volumes, 1,250,000 microtexts and 220,000 other bibliographic units.

The library has a collection of over four million patents, the largest in the Southeast. The library acquires research reports from the National Technical Information Service, the U. S. Department of Energy and the National Aeronautics and Space Administration. It is a depository for publications issued by the U. S. Government Printing Office and for maps issued by the U. S. Defense Mapping Agency, Topographic and Aerospace Center, U. S. Geological Survey and the U. S. National Ocean Survey. The government documents collection contains 300,000 publications and 100,000 maps.

Over 12,000 serials, including 6,500 periodicals, are currently received, approximately 75 percent of them in scientific and technical fields. Especially strong is the collection of abstracts, indices and bibliographies for science and engineering.

The catalogue record of the library collection has been converted to computer output microfilm (COM). The COM catalogue is located on each floor of the library, in selected dormitory areas, in the Student Center and in each academic and research department. Twice daily books and other library documents are delivered to requesting faculty. The Georgia Tech library is associated with eight other libraries in the Atlanta area and in Athens, Georgia and offers a union catalogue of the holdings of all member libraries.

The library's vast store of information is available also to the off-campus businessman, industrialist and engineer. The on-demand information service offered is financed from fees charged for services rendered. Available are search services, computer or manual; copying services, loan services and delivery services.

Source: Director of the Price Gilbert Memorial Library

The Office of Computing Services is responsible for the coordination of all computing activities on the Georgia Tech campus. A major function of the office is the operation of a central facility for providing effective, efficient, and conveniently accessible computing services and resources to students, faculty, and staff in support of education, research, and administration.

The staff consists of over 60 technical personnel organized into three major divisions:

- 1. The Computer Operations Divison is responsible for managing all operational aspects of the centralized facilities. It is further organized into three units, User Services, Systems Programming, Data Processing and Engineering.
- 2. The Applications System Design Division coordinates the design and development of computer oriented campus information systems.
- 3. The Applications Programming Division coordinates the implementation and operation of computer oriented campus information systems.

The central computing facility consists of a Control Data Corporation dual processor CYBER 70 Model 74-28 and a CDC 6400 coupled through extended core storage. The three CPU's within this coupled system are capable of executing about 4.7 million instructions per second. Attached to this is an array of magnetic tape units, disk drives, card reader/punches, local printers, and data communications equipment. The data communications system is connected through a dual Interdata minicomputer front-end system that accommodates various synchronous and asynchronous line speeds for remote job entry and interactive terminals.

Additional access to the system is provided through two user-operated batch terminals and 35 hardwired interactive terminals located within the Rich Building, and over 150 ports and many remote batch and interactive terminals provided by other campus units.

Computing Services also provides many support services to make the use of the computing system easier. These include user operated keypunches, a professional keypunch service, a Calcomp 763 pen plotter, a Versatec electrostatic plotter, and an NCS 7010 optical mark reader, and an on-line mass storage facility capable of storing 20 billion characters.

Source: Director of Computing Services

Physical Facilities

	Gross Area (Sq. Ft.)	Assignable Area* (Sq. Ft.)
Total Academic	1,817,361	1,129,293
Total Library	234,800	151,281
Total General Administration and Institutional Services	237,837	137,836
Total General Use	468,179	336,892
Total Research	388,334	304,032
Total Dormitories (3660 on-campus dorm rooms for single stu (165 off-campus dorm rooms for single stu		439,831
Total Apartments (298 family units)	261,600	185,980
Total Residential	999,046	647,211
Total Non-Residential	3,146,511	2,059,334
Grand Total	4,145,557	2,706,545

Source: Vice President for Planning

^{*}Excluded from the assignable area are the non-assignable areas of circulation, custodial, mechanical, and construction space.

The 32-institution University System of Georgia is committed, by action of the Board of Regents, to three major activities: teaching, research, and public service. In 1908--just twenty years after first opening its doors in 1888--Georgia Tech responded to a growing public service need by establishing a night school to provide a professional education service to working adults. Through the ensuing 72 years with occasional changes in its programs, as well as in its name and organizational structure, this unit has, without interuption, provided a continuing service to the adult community. In 1964 its name was officially changed to the "Department of Continuing Education of the Georgia Institute of Technology."

Through the public service activities of this Department, the Institute's resources in the areas of teaching and research can be utilized to bring to local, state, regional, national, and international communities continuously updated basic and advanced knowledge, skills, and technical expertise. These programs take the form of short courses and conferences which respond to the needs expressed by both individuals and management groups in industry and business, technical and professional societies, and government laboratories and agencies.

With regular college enrollments waning nationally, and greater numbers of adults wishing to obtain professional continuing education during non-working hours, the Department of Continuing Education faces a new and growing challenge. It is moving vigorously to meet that challenge by serving as the vehicle through which both on-campus and off-campus programs can be provided by the faculties of its four Colleges: Engineering, Architecture, Industrial Management, and Sciences and Liberal Studies, as well as by the staff of the Engineering Experiment Station.

Program Information

Number of:	1976-77	1977-78	1978-79
Programs	151	96	104
Participants	4,381	6,039	4,810
States Represented*	47	49	46
Non U.S.A. Persons	68	225	415
Georgia Residents	1,036	1,276	1,504
Counties in Ga. Represented	67	[*] 76	87
Institutional CEU's	8,604	20,274	14,355

^{*}Includes the Canal Zone, Puerto Rico, and the Virgin Islands

Source: Director of Continuing Education