College of Engineering and Computing Course Catalogs

NSU Course Catalogs and Course Descriptions

1987

Doctor of Arts in Training and Learning

Nova Southeastern University

Follow this and additional works at: http://nsuworks.nova.edu/cec_coursecatalogs

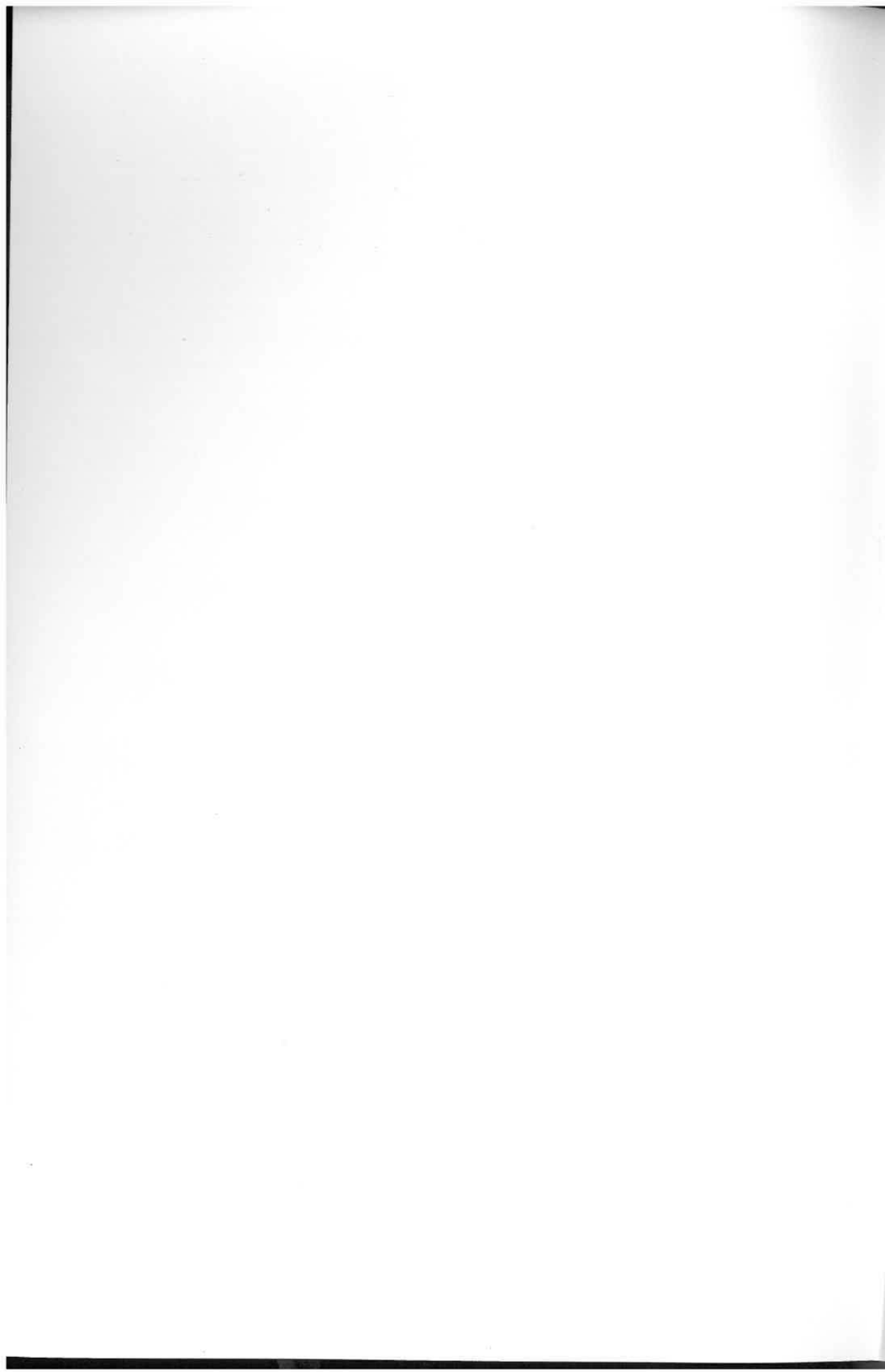Part of the Computer Engineering Commons

NOVA

UNIVERSITY

Doctor of Arts in Training and Learning
1987-89 Catalog

Computer-Based Program Delivered
Through UNIX*

Doctor of Arts in Training and Learning

Center for Computer-Based Learning
1987-89 Catalog
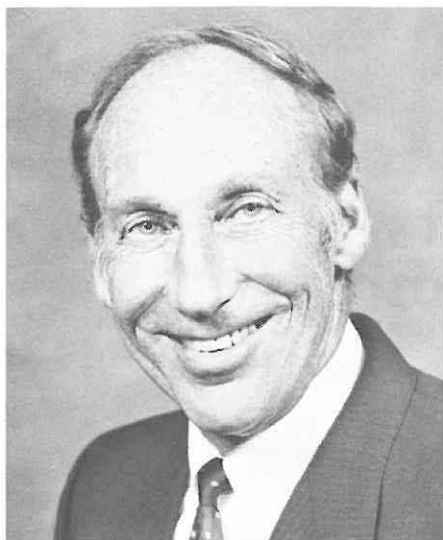
Now entering its third decade, Nova University is beginning to see the impact that its graduates are having on the institutions within our society. Many of the University's programs are mission-oriented, designed to improve the performance of professionals, and evidence is being collected that indicates that Nova alumni are having a strong, positive effect on the institutions in which they are employed.
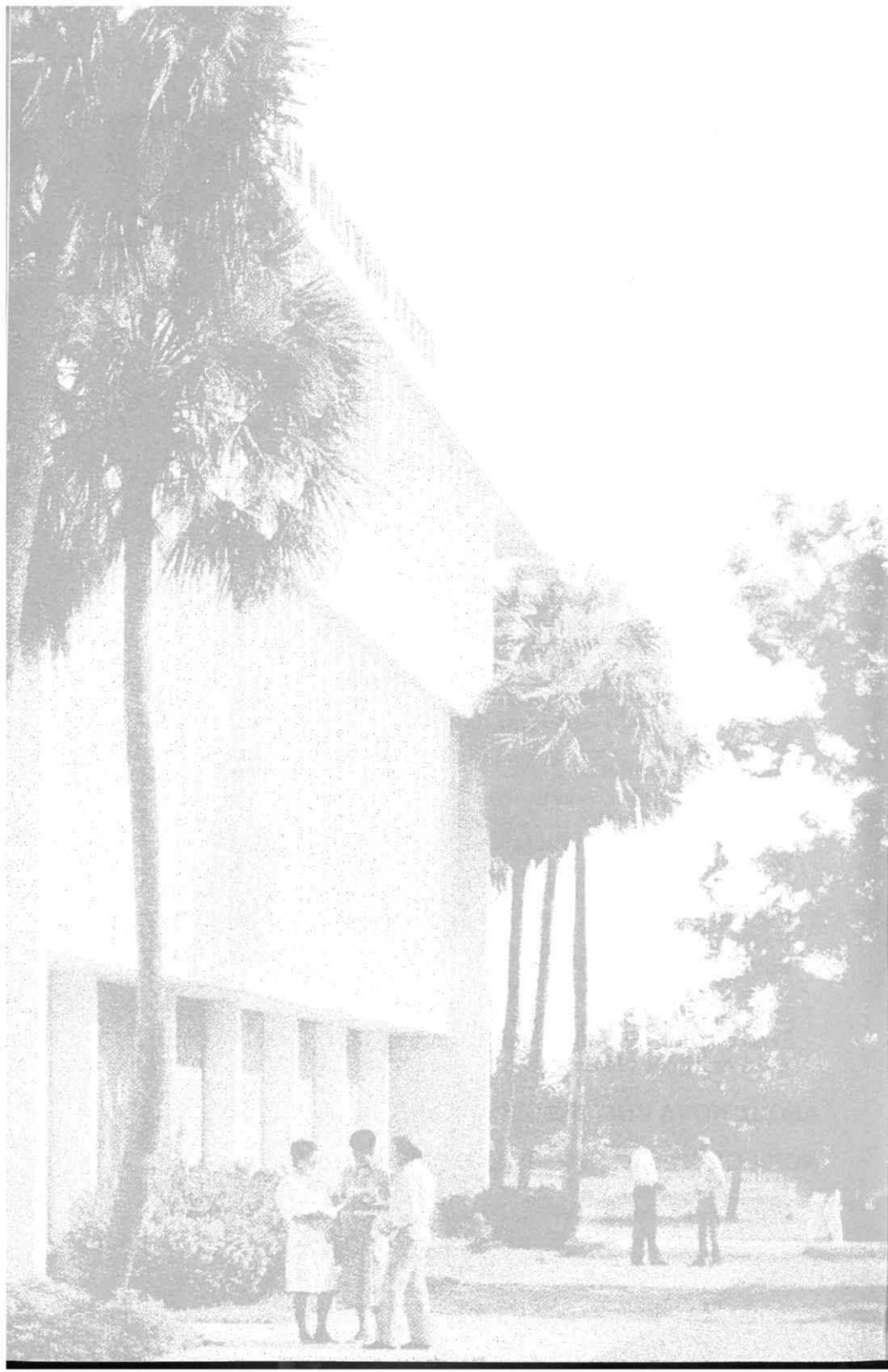
Independent education must continue to be responsive and adaptable to the varying needs of potential students if it is to represent a true alternative to the tax-supported sector. Nova University is committed to maintaining quality while it is meeting these needs.

Abraham S. Fischler

President, Nova University

Contents

Center for Computer-Based Learning

The Center for Computer-Based Learning of Nova University offers three doctoral programs for practitioners in the fields of training (DATL), information science (DAIS) and information systems (DIS). These three doctoral programs are offered for professionals who want to become leaders in their organizations by applying the latest computer-based technologies. Although they were designed with the idea that the new leaders should master the latest computer technologies, these three programs are offered to different categories of professionals.

The Doctor of Arts in Information Systems (DIS) is offered for those professionals, managers in business, government, or industry, who are involved with computer-based information, with an emphasis on information systems in organizations.

The Doctor of Arts in Training and Learning (DATL) is offered for those professionals, managers in business, government or industry, who are involved with computer-based information, with an emphasis on professional training.

The Doctor of Arts in Information Science (DAIS) is offered for those professionals working in information fields such as libraries, media centers, and information retrieval centers.

Four year combined Master's and Doctoral Program: in addition, the Center for Computer-Based Learning offers a four-year combined master's and doctoral option in training and learning (MSTL/DATL), information science (MIRM/DAIS) and information systems (MIS/DIS).
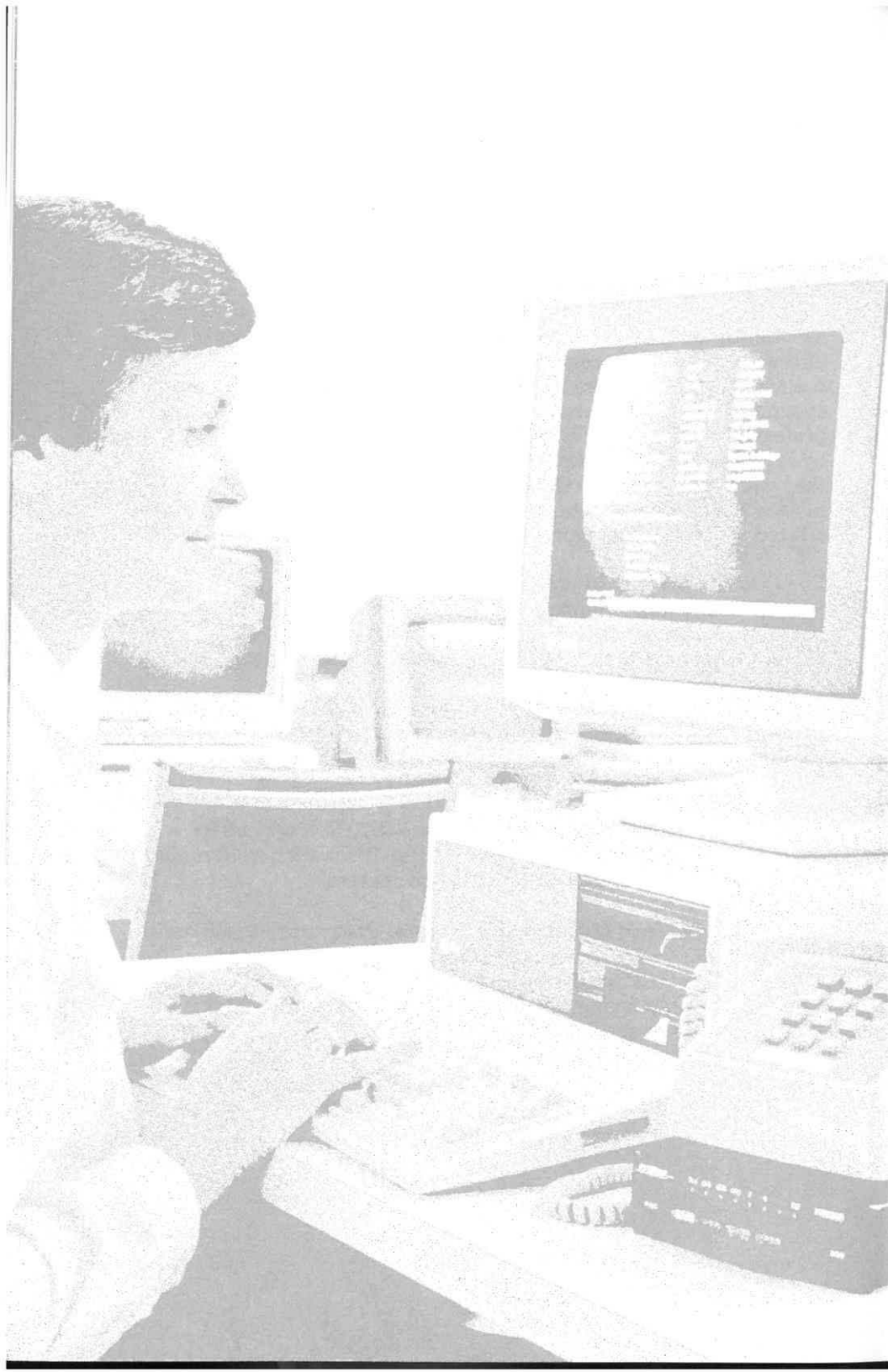
Doctor of Arts in Training and Learning
Computer-Based Program for CBT Professionals

The Doctor of Arts Program

Nova University provides programs to practitioners working in the field of training. The programs capitalize on a computer-based delivery system to combine formal instruction, independent study, and applied research into integrated study designed to be completed in approximately three years.

Philosophy and Mission

The Doctor of Arts program embodies a commitment to provide quality doctoral education. This commitment stems from the goal to foster more productive and creative computer-based training environments by improving the skills of those who are currently involved with the planning, management, and delivery of training. Thus the program is designed exclusively for practitioners who are employed.

Having established this mission, the field-based delivery system was developed as the most appropriate means for offering the program. The most salient aspect of the field-based approach is that there is no on-campus residency requirement--it does not force the removal of practitioners from the very positions and responsibilities for which they are seeking advanced preparation. On the contrary, the field-based approach allows for the integration of study and practice. Program participants, who are steeped in the day-to-day problems, issues, and conditions of training, use their knowledge and experience to examine critically the "real world" efficacy of theory and practice presented through formal instruction and learned through independent study. And because of their status as practitioners, they have the opportunity (and are required) to submit to the test of reality newly acquired knowledge and competencies through direct application within their own organizations.

The significance of this structured intermingling of study and practice is summed up in the following point: in most traditional doctoral programs, the ability to perform as an outstanding practitioner is assumed to be a consequence of earning the degree. In field-based and computer-based programs at Nova University, it is a condition for earning the degree.

Doctor of Arts in Training and Learning Program Description

The major purpose of the Nova University Doctor of Arts in Training and Learning program is to provide a rich learning environment for training practitioners. The program facilitates the design and application of CBT systems based on emerging technologies in computers and telecommunications. The program enables students to develop in their work environments automated processes and systems that take full advantage of the latest in software tools and hardware designs. For this reason the program has been designed to operate in a UNIX* operating environment. The UNIX operating system is rapidly expanding into most fields of computer usage--from mainframe environments to office computers to personal micros.

UNIX was developed at Bell Laboratories to foster a cooperative atmosphere among scientists and engineers. The system is used in this program not only for its extensive set of tools for automation but also to facilitate idea sharing and joint projects among the practitioners enrolled. UNIX operates at Nova University on a Digital Equipment Corporation mainframe computer, a VAX 11/780. Students make telephone connection with Nova's computers by dialing phone numbers in their local areas. Package switching makes this facility possible at no additional cost to the student.

*UNIX is a trademark of AT&T Bell Laboratories

4

Students who do not live in a Tymnet access location will have to pay a toll charge to their nearest local Tymnet number. Tuition includes up to 40 hours (60 hours for the first course) connect time on Nova's computers for each student in any given course. Additional connect time is paid for by the student at the rate of $7.00 per hour (as of July 1, 1987). The hours of online operation are between 7 PM - 6 AM Monday-Thursday and from Friday at 7 PM - 6 AM Monday.

COMPUTER-ASSISTED INSTRUCTION The UNIX system includes numerous software tools in a command interpreter called the Shell. The Shell enables students to communicate online with professors and also provides a vehicle for student-to-student dialog about projects and problems. This is accomplished through programs in the Shell that support electronic mail "mail," and live interactive dialogue "talk," "write," and "phone." These utilities enable students to mail documents, to ask questions of professors or other students or groups of students, and to receive bulletins concerning the program or their progress. UNIX contains a resident CAI authoring system called LEARN through which an extensive amount of the content in the first two core courses is completed. The INSTRUCTIONAL WORKBENCH (IWB) designed by AT&T is also used in the program. The IWB system under UNIX enables students to maintain extensive control over their own learning by making it possible for them to use all of the UNIX utilities while in any given lesson. Descriptions of the courses are provided on pages that follow.

WRITTEN ASSIGNMENTS AND PROJECTS (PRACTICUM ARCHIVE) Although the actual writing process usually takes place offline on a local microcomputer, all assignments eventually are mailed electronically to a central point for evaluation and feedback. Students are required to complete satisfactorily two practicums--applied research projects that address significant problems in their own organizations. These projects are reviewed, corrected, and stored online. The Writer's Workbench (WWB) is available in the UNIX environment. The WWB facilitates speed and accurate processing of student projects.

Practicums are stored online and can be accessed through a menu system. Each practicum can be read and online comments can be added by the reader to be shared with the author. If the author is online at the time of access, the reader is notified of this and can "talk" directly with the author about the practicum.

EXAMINATIONS Examinations are scheduled throughout the program. Final examinations are required for each core course and a comprehensive examination is given at the end of the third year.

Admission Requirements

Since the program is designed for professionals in training, the following requirements must be satisfied by each applicant:
1. A master's degree in an instructional or a related field from a regionally accredited university
2. Current employment in the training field
3. A minimum of two years of professional experience
4. A G.R.E. score or completion of a portfolio with appropriate work experience and credentials
5. Three letters of recommendation
6. An application form and transcripts of all graduate college and university credits received

The Training and Learning central staff will make all decisions concerning admissions.

Fees and Tuition Policy

The application must be accompanied by a $30 check made payable to Nova University. This is a one-time nonrefundable fee. The tuition for each year is $4500. Students who must continue beyond three years go into Continuing Services at the much reduced tuition rate of $900 per six-month term.

Tuition Payment Plan

Tuition may be paid in a single payment of $4500, two payments of $2250, or quarterly payments of $1125. Payments are due ten (10) days before each cluster seminar. There is a $60 yearly registration fee.

First Installment	Second Installment
$ 1125.00 (1/4 tuition)	$1125.00 (1/4 tuition)
30.00 (registration fee)	
$ 1155.00	

Third Installment	Fourth Installment
$ 1125.00 (1/4 tuition)	$1125.00 (1/4 tuition)
30.00 (registration fee)	
$ 1155.00	

Included in the tuition are study guides, case analysis documents, computer conferences, computer connect charges on the Vax for 40 hours (60 hours for first course), and cluster seminars (does not include toll charges to access Tymnet).

Other Expenses

Attendance at ten cluster seminars and two extented (Fri/Sat/Sun) weekend institutes on the Nova main campus is required for graduation. While there is no fee for the seminars or the weekend institutes, students must pay their own transportation and living expenses for these two-day seminars and for the weekend institutes. Students must purchase their own textbooks.

The approximate cost is $100 per six-month term. Students who do not live in Tymnet access locations will have to pay a toll charge to access their nearest local Tymnet number. Students who go over the 40 (60 hours for the first course) connect hours per course, will be billed for additional time at the rate of $7 per computer-connect hour. This $7 charge per computer-connect hour on Nova's VAX in excess over the 40 hours (60 hrs/first course) is billed whether a student accesses the University computer over Tymnet or by direct dialing (local direct dial, long distance dial or from an on-campus terminal in a lab or other facility). This fee may vary depending on our Tymnet contract. In addition, students must pay all of their local phone tolls or charges to access any Tymnet number.

There is a late payment fee of $25 and a reinstatement fee of $10 (for those who leave and then are permitted to re-enter the program). Repeated late payments will result in the student's being dropped from the program. Students who wish to remain in the program must maintain continuous enrollment in courses by both registering and paying all tuition and fees. Any student who discontinues active participation in courses but who wishes to continue online privileges must pay a $900 per term fee in addition to the standard fees for any computer connect time that is over 20 hours for each six-month term.

Refunds

Students who wish to withdraw from the program, either temporarily or permanently, must inform the Center for Computer-Based Learning Admissions Office in writing to be eligible for allowable refunds. Students will receive a full tuition refund if they withdraw before the first semester and have used no online computer time. If online time has been used, $7 per hour will be deducted from the allowable refund. Students who have paid tuition and withdraw after the first seminar will be entitled to a refund equivalent to the second quarterly payment, assuming that the second quarterly payment had been paid along with the

first quarterly payment, otherwise no refund will be given. If a cluster fails to form in the applicant's geographic area, all monies will be refunded (including the application fee). If an application is rejected, the $30 fee will NOT be refunded.

Financial Aid

Nova University offers several programs of student financial aid in order to assist the greatest number of its students possible in meeting educational expenses. The primary responsibility for paying for education rests with the student and his or her family. Financial aid is available to "fill the gap" between the cost of education and the amount the family can reasonably be expected to contribute.

In order to qualify and remain eligible for financial aid, students must be accepted for admission into a University program; eligible for continued enrollment; a United States citizen, or in the U.S. for other than a temporary purpose; and making satisfactory academic progress toward a stated educational objective in accordance with the University's policy on satisfactory progress for financial aid recipients.

For information on sources of aid and for application forms, please contact: Nova University, Office of Student Financial Planning and Resources, 3301 College Avenue, Parker Building, Room 348, Ft. Lauderdale, Florida 33314 (305) 475-7410.

V.A. Benefits

Nova University academic programs are approved by the State of Florida, Department of Education, State Approving Agency for Veterans Training, for veterans educational benefits. The V.A. Representative will assist veterans in applying for benefits. A V.A. student must attain and maintain satisfactory progress as determined by the program director each evaluation period (e.g., six-month term). He/she also must meet any skill or technical requirements of his/her particular program. A V.A. student who, at the end of any evaluation period, has not attained and maintained satisfactory progress will be placed on academic probation for the next evaluation period. Should the student not attain and maintain satisfactory progress by the end of the probationary period (one six-month term), the student's V.A. educational benefits will be terminated for unsatisfactory progress. A student whose V.A. educational benefits have been terminated for unsatisfactory progress may petition the school to be recertified after one six-month term has elapsed. The school may recertify the student for V.A. educational benefits only if there is a reasonable likelihood that the student will be able to attain and maintain satisfactory progress for the remainder of the program.

Student Conduct and Rights

Students are expected to comply with the legal and ethical standards of Nova University. Academic dishonesty and nonacademic misconduct are subject to disciplinary action. Specific instances of misconduct include, but are not limited to, cheating, plagiarism, knowingly furnishing false information to the University, and forging or altering University documents or academic credentials.

Students who feel their rights have been denied are entitled to due process.

Grading System

Instructional personnel in the Doctor of Arts programs assign grades of PASS, NO PASS, and INCOMPLETE for courses and PASS, NO PASS, and UNACCEPTABLE for practicums and major field projects. Course grades are assigned by the national lecturer responsible for that course and practicum grades are assigned by the practicum evaluator.

A PASS indicates the student has satisfied all core course, seminar, or practicum requirements.

An INCOMPLETE for a course indicates the student has attended the seminar but has failed to meet all requirements. However, it is reasonable to expect that the student will be able to satisfy the requirements. An INCOMPLETE must be made up within one year from the last day of the term.

A NO PASS indicates that a student has attempted to complete all requirements in the courses but has failed to do so. Any student receiving a NO PASS must repeat the course.

A grade of UNACCEPTABLE means the practicum needs revision. When a practicum receives a "U" on the second revision, a NO PASS is assigned and the student must begin a new practicum on a new topic.

Students who receive two NO PASSES will be terminated from the program and may not be readmitted.

During the third year of the program, each student works on the Major Field Project. Students who require more than three years to complete the program come under the jurisdiction of the Office of Continuing Services (OCS). This office assists such students in obtaining needed advice and counseling for completing the program. Tuition beyond the third year is $900 per six-month term. Twenty online hours are allotted. Students who enroll and pay tuition beyond the third year will receive a refund of 50% if work is completed within 30 days of course registration and their online time does not exceed the 20 hours allotted. No refunds will be granted after the 30 day period elapses.

Student Progress Records

The Center for Computer-Based Learning maintains up-to-date progress records on each student. The University periodically furnishes each student with a working transcript, which shows the current status of grades and earned semester hours for all courses completed and/or attempted, plus grades for courses in which the student is currently enrolled.

Entry Options

A two-day introductory session on Unix is offered in a workshop format. New students are urged to come to the Nova University Main Campus, attend the Unix Workshop, and get acquainted with the Computer-Based Learning Center. This workshop is included in the regular tuition, however, you must pay your own travel and living expenses. If a student already has a minimal level of skill in Unix, or simply cannot make the on-campus workshop, the alternative is attendance at a pre-seminar (four hours) introduction to Unix at a local cluster site.

Students who have a good background in Unix and telecommunications can have waived the above requirements on providing certification of that knowledge.

Graduation Requirements

To be eligible for graduation a student must fulfill the following requirements:

1. Attend the 10 cluster seminars and pass the five core courses (3 credit hours each-total 15 credit hours)
2. Complete five online Modules-of-Expertise (MOE) (2 credit hours each-total 10 credit hours)
3. Attend the two extended weekend institutes on Nova's main campus and pass the two specialty courses (3 credit hours each-total 6 credits)
4. Pass two practicums (8 credit hours each-total 16 credit hours)
5. Successfully complete the Major Field Project Proposal (MFPP) and the final MFP (20 credit hours)
6. Receive a passing grade on a comprehensive examination
7. Be current in all tuition and fees

Total credit for the entire program is 67 semester hours.

All requirements must be completed within seven (7) years of the student's start date. The University recognizes that individual programs require differing time limits for the completion of academic studies leading to a degree. Therefore, the time frame is a matter within the discretion of each academic program.

Consideration will be given to granting up to six hours credit in postmaster's work within the past ten years for the same or equivalent course work. No credit for life experience or other forms of advanced standing will be granted.

Withdrawal

Students who wish to withdraw from the program--either
temporarily or permanently--must inform the Admissions Office
in writing to be eligible for allowable refunds. Students who give
written notice of their intent to withdraw prior to a seminar will
not be assessed for that or subsequent courses until they are
formally readmitted. Students who withdraw and reenter are
assessed a readmission fee of $10 and are subject to the prevailing
tuition rate.

Since some seminars are offered only once at a particular site,
students are advised that failure to attend a seminar when it is
offered in their region may experience some logistical difficulties
in making up the missed seminar at a later date. For this reason,
students are urged to maintain continuous enrollment.

Readmission

Individuals on withdrawal who wish to be readmitted must
complete a readmission form and be approved for readmission by
the Admissions Committee of the Doctor of Arts program.

13

Course Descriptions

Seven modes of delivery are provided in the courses: cluster seminars, extended weekend (Fri/Sat/Sun) institutes, computer conferences, computer-assisted instruction on a supermini computer, interactive real-time computer discussions with faculty members, electronic mail conversations, and assignments delivered electronically. Final examinations are taken by the students in person and are supervised by a member of the central staff. All other written assignments are forwarded through electronic mail and stored in central databases.

All courses reflect areas in the training field where improvements are needed. They contain numerous assignments that are available both online and in study guides. Much of the work on assignments is done offline and then uploaded to the student's home directory. Later, assignments are mailed (electronically) to the proper destination or directory. Assignments are designed to require manipulation of text or data by the many application programs in UNIX, and all text submitted must be treated by the appropriate tools of the Writer's Workbench (WWB).

The Training and Learning student will acquire his/her knowledge through a combination of core courses, modules-of-expertise and specialty courses (taken during an extended weekend (Fri/Sat/Sun) seminar, on campus, at the ends of the first and second years). Each core course and its corresponding module-of-expertise is scheduled for six months.

The course descriptions follow:

IS 7000   Emerging Computer and Information Technologies for Training and Learning Design (3 credit hrs.)
- A design course using developing computer concepts, software systems, telecommunications, and videodisc systems. The DATL student will develop specific competence in one of the following areas:
  - emerging computer architectures, computer operating systems, and their implications for training and learning design (RISC, ASIC, VLSI, etc.);
  - authoring languages, training systems and their applications to training and learning;
  - CD-ROM and optical disc technologies;
  - telecommunications and data communications technologies (ISDN, changing standards, direct broadcast satellites and VSAT).

**IS 7100   Computer-Based Research and Statistics
        (3 credit hrs.)**
- An introduction to data and information analysis and inference.

**DTL 7110   Data Analysis for Training and Learning
        (2 credit hrs.)**
- The DATL student will pursue one of the following
  specializations:
  - economic analysis of proposed resource commitments, analysis
  of different alternatives, and risk analysis for each case;
  - efficient use analysis of these resources in a training
  environment;
  - information theory and its application to training and
  learning;
  - recommendation of guidelines to the selection of the "best"
  solution in relation to training and learning;
  - evaluating different training programs and testing their
  efficiency.

IS 7200   Strategic Management of Information (3 credit hrs.)
- An introduction to information systems projects involvement
  with top management strategy formulation and implementation.

**DTL 7210   Finance and Budgeting in Training and Learning
        (2 credit hrs.)**
- The DATL student will become expert in one of the following
  areas:
  - the role of training and learning in organizations and how they
  relate to organizational objectives and organizational structures;
  - comparison of the training and learning plan to the
  organizational strategic plan;
  - identification of the key organizational objectives and
  development of budgets and financial plans for training and
  learning programs to support these objectives;
  - depreciation and payback analysis on learning technology.

DTL 8400 Human Factors in Software Design (3 credit hrs.)
- An introduction to the human interface in information projects.

DTL 8410 Design of Human Interfaces (2 credit hrs.)
- The DATL student will further develop his/her expertise with
  one of the following subjects:
  - ability to identify human problems in a training environment;
  - analysis of task-oriented behaviors and time constraints in a
  training and learning setting;

16

- prediction of future behavior in terms of commonly used variables of economics and psychology;
- optimization of the chances of implementing with success a training and learning environment in your organization;
- analysis of the factors working against a successful implementation of a training program: economic, political, personal problems.
- the relation between the company's long range, strategic plan and its ability to implement a successful training program.

IS 8500 Database Management Systems, Text Processing and Information Retrieval (3 credit hrs.)
- An introduction to database management systems, data communications, and networks.

DTL 8510 Relational Databases in Organizations (2 credit hrs.)
- The DATL student will strengthen his/her education in one of the following topics:
- database concepts, hierachical and plex structures, relational databases, normalization techniques, query languages, database management and database administration;
- database requirements in relation to training and learning;
- management of students records: automatic recording of student progress in training and learning.

DTL 8600 Software and Courseware Design for Computer-Based Learning (3 credit hrs.)
- Topics include:
- the design, development, and evaluation of software and courseware along with documentation, packaging, and marketing;
- the evaluation, examination and use of authoring systems;
- the analysis of current methods and practices in the field of computer-based training (CBT) design, documentation, security, and database management;
- an introduction to CAI authoring systems in a Unix environment: c-pilot, learn, course-writers workbench, prolog and inference.

IS 8700 Systems Analysis, Expert Systems and Artificial Intelligence (3 credit hrs.)
- The principles of systems analysis and design are presented in a context of artificial intelligence applications. An approach to the design of systems is highlighted using examples of expert systems.

DTL 8710 Artificial Intelligence and Expert Systems for Training and Learning (2 credit hrs.)

- principles of training and learning making use of knowledge-based examples (design expert systems with commercially available shells);
- analysis of complex training and learning situations through problem analysis;
- selection and use of appropriate tools for model building, simulation, optimization, statistical analysis, and scheduling in a training environment;
- the application of systematic design principles for training program development;
- the selection and application of appropriate hardware and software solutions to the training environment;
- artificial intelligence and application of expert systems to training and learning (a PROLOG example).

Cluster Seminars

Students are required to attend four cluster seminars during the first year of the program, four cluster seminars during the second year, and two seminars during the first six months of the third year. Seminars begin Friday evening and adjourn Saturday evening. A computer conference is held prior to all seminars. The emphasis in the seminars is on the key issues in training and learning. Leadership and the change process are primary areas of concentration throughout the ten sessions. Seminars are designed to reinforce the online courses and explore new horizons.

Currently there are five clusters where seminars are held. Term dates are listed below:

Ft. Lauderdale, FL	Wilmington, DE	St. Louis, MO
7/31/87 - 1/22/88	8/07/87 - 1/29/88	8/21/87 - 2/12/88
1/22/88 - 7/22/88	1/29/88 - 7/29/88	2/12/88 - 8/12/88
7/22/88 - 1/20/89	7/29/88 - 1/27/89	8/12/88 - 2/10/89

Los Angeles, CA	Jacksonville, FL
8/28/87 - 2/19/88	8/14/87 - 2/05/88
2/19/88 - 8/19/88	2/05/88 - 8/05/88
8/19/88 - 2/17/89	8/05/88 - 2/03/89

Below is a sample of the topics covered in the cluster seminars.

- Operating Systems: The UNIX Environment for Information Management
- The Role of Computers in the Training Field
- Computer Applications in Research
- Research in Information Systems
- Fundamentals of Database Management Systems
- Advanced Relational Databases and Management Information Systems
- Instructional Design: Theory and Practice
- Advances in Computer Simulation and Games for Training and Education
- Man-Machine Systems, Human Processes, Environmental Factors, and Instrumentation of Man-Machine Interaction
- Learning Theories, Instructional Theories, Motivation, and the Psychology of Adult Learners
- Authoring Systems and Software Design for Computer-Based Learning
- Designing and Marketing Computer-Based Learning Systems

Modules-of-Expertise

For each core course, the student will complete a module-of-expertise, taken online, with an expert in the field.

Nova On-Campus Institute

During the summer of the first and second years, the student will come to the Nova main campus for an extended weekend (Fri/Sat/Sun) institute. During each institute, the student will take one specialty course.

Practicums

The practicum process is designed to allow students to investigate a situation or problem that is important to the field of training. Generally, this will enable the students to investigate a situation directly related to activities within their own institutions or organizations and translate course theory into practice. Upon completing the investigation, students should be able to reach conclusions and offer recommendations that have the potential of contributing to the improvement of professional practice. Such recommendations could result in increased outputs, more effective procedures, or implementation of creative techniques. Students must complete two practicums, one in each of the first two years of their program.

Major Field Project (MFP)

An MFP is the main focus of the final year in the program. Each student is expected, with the help and approval of an advisor, to select a topic that is appropriate and of sufficient scope to satisfy this requirement. The student must conceptualize the most appropriate way to proceed; submit an online proposal; on approval of the proposal, follow the procedures outlined; and prepare a final online report that must be approved by the student's committee. The mode of operation is the same as in most doctoral programs that are campus-based. The student works closely with a major advisor who, together with two other educators, constitutes an MFP committee to advise and approve the project.

Faculty

Students are taught by nationally recognized authorities drawn from universities and other training organizations across the country who are hired as national lecturers on the basis of their subject expertise, teaching ability, and professional recognition. National lecturers travel to each cluster area to conduct the sessions for each of the required seminars.

NATIONAL LECTURERS

RESEARCH AND STATISTICS
Jacques Levin, Ph.D.
Nova University
Fort Lauderdale, Florida

HUMAN FACTORS
Joe Dalezman, Ph.D.
IBM
Boca Raton, Florida

DATABASE MANAGEMENT
SYSTEMS
Jacques Levin, Ph.D.
Nova University
Fort Lauderdale, Florida

STRATEGIC
MANAGEMENT
Jeff Toomer, Ph.D.
Florida International
University
Miami, Florida

EMERGING TECHNOLOGIES
Gabriel Ofiesh, Ed.D.
Howard University
Arlington, Virginia

SOFTWARE AND
COURSEWARE DESIGN
Michael Mocciola, Ed.D.
San Francisco State
University
San Francisco, California

FURTHER INFORMATION

Those who are interested in receiving further information on the program described in this catalog may do so by contacting the Center for Computer-Based Learning, 3301 College Avenue, Fort Lauderdale, FL 33314 (305) 475-7047.

NOVA UNIVERSITY ADMINISTRATION

ABRAHAM S. FISCHLER, President
STEPHEN L. GOLDSTEIN, Vice-President for Corporate and
    Foundation Relations
JAMES G. GUERDON, Vice-President for Administration and
    Finance
OVID C. LEWIS, Vice-President for Academic Affairs
RICHARD G. MILLER, Vice-President for Development

DOCTOR OF ARTS IN TRAINING AND LEARNING-CENTRAL STAFF

John A. Scigliano, Ed.D.
Dean, Center for Computer-Based Learning

Jacques C. Levin, Ph.D.
Director, Training and Learning

Mientje Levin, Ph.D.
Director, Master's Program

George Fornshell, D.A.
Director, Telecommunications and Technology

Gaby H. Charpentier
Assistant to the Dean

Don Joslyn, B.S.
Staff Computer Scientist

Marlyn J. Kemper, D.A.
Director, Information Sciences

Delynn A. Barton, M.S.
Research Associate

Laurie P. Dringus, M.S.
Assistant Director
Master's Program

Janet King
Administrative Secretary

Judith A. Reh
Administrative Assistant

23

ADVISORY BOARD MEMBERS

Abraham S. Fischler
President
Nova University
Ft. Lauderdale, FL

Peter R. Chylko
Director
Human Resources Field
Operations
Gould Electronics
Ft. Lauderdale, FL

Gabriel Ofiesh
President
Communications and Training
Systems International
Arlington, VA

Alan D. White
DATL Graduate
Integrated Communications
Technology, Inc.
Arlington, VA

George H. Voegel
Dean of Educational Services
William Rainey Harper College
Palatine, IL

Jack Luskin
DATL Student
University of Lowell
Lowell, MA

About the University

NOVA UNIVERSITY is an independent, nonsectarian, nonprofit, university chartered by the State of Florida in 1964. It is located on a 200-acre main campus west of Fort Lauderdale at 3301 College Avenue in Davie, with additional locations in downtown Fort Lauderdale and Coral Springs and at Port Everglades. Its ten centers of study offer campus-based undergraduate and graduate programs leading to degrees in education, law, the behavioral sciences, computer sciences, and business and public administration. As an acknowledged leader in field-based degree programs, Nova offers courses of study leading to the bachelor's, master's, educational specialists, and doctoral degrees in education, in business and public administration, and in the behavioral, social, and computer sciences.

The University School, a demonstration school, serves children from preschool through high school. In addition, nondegree, continuing education and certificate programs are offered by the University.

From the beginning, the University has distinguished itself by its innovative outlook, its unique programs that provide both traditional and nontraditional choices in educational programs, and its research in many fields aimed at solving the problems of immediate concern to mankind.

Nova University Degree Offerings

DOCTORAL AND PROFESSIONAL DEGREES

Doctor of Arts (D.A.) in:
  Information Science
  Information Systems
  Training and Learning Technology
Doctor of Business Administration
  (D.B.A.) in:
  Business Administration
Doctor of Business Administration--
  Human Resource Management
  (D.B.A. -H.R.M.)
Doctor of Business Administration--
  International Management
  (D.B.A.-I.M.) in:
  Business Administration--
  International Management
Doctor of Education (Ed.D.) in:
  Computer Education
  Early and Middle Childhood
  Higher Education
  Leadership in Adult Education
  School Administration
  Vocational, Technical, Occupational
  Education
Juris Doctor (J.D.) in:
  Law
Doctor of Philosophy (Ph.D.) in:
  Child Clinical/Applied Developmental
  Psychology
  Clinical Psychology
  Oceanography
Doctor of Psychology (Psy.D.) in:
  Clinical Psychology
Doctor of Public Administration
  (D.P.A.) in:
  Public Administration
Doctor of Science (Sc. D.) in:
  Computer Science
  Human Resource Management

SPECIALIST DEGREES

Educational Specialist (Ed.S.) in:
  Computer Applications
  Computer Education
  Computer-Based Learning
  Computer Studies
  Education *(23 majors)*

MASTER'S DEGREES

Master of Accounting (M.Ac.) in:
  Accounting
Executive Master of Business
  Administration in Banking
  (M.B.A.--Ex.) in:
  Business Administration
Master of Business Administration
  (M.B.A.) in:
  Business Administration
Master of International Business
  Administration (M.I.B.A.) in:
  International Business Administration
Master of Public Administration
  (M.P.A.) in:
  Public Administration
Master of Science (M.S.) in:
  Child and Youth Care Administration
  Coastal Zone Management
  Computer Applications
  Computer Education
  Computer-Based Learning
  Computer Science
  Computer Studies
  Counseling Psychology
  Criminal Justice
  Education *(23 majors)*
  Health Education
  Health Services Administration
  Human Resource Management
  Human Services
  International Economics and Finance
  Learning Resources
  Marine Biology
  Microcomputer Applications in
  Management
  School Guidance
  Speech and Language Pathology
  Telecommunications Management

BACHELOR'S DEGREES

Bachelor of Science (B.S.) in:
  Accounting
  Administrative Studies
  Business Administration
  Community Psychology
  Computer Engineering
  Computer Information Systems
  Computer Science
  Computer Systems
  Elementary Education
  General Psychology
  Legal Studies
  Organizational Psychology
  Professional Management
  Secondary Education

PRIVACY OF RECORDS

Nova University maintains a system of records which include application forms, letters of recommendation, admission test scores, and transcripts of students' previous academic records and performance while in residence. These records are available for review by present and former students upon written request to the Registrar's Office. However, the registrar's office will not release transcripts of students' academic records until all their accounts, both academic and non-academic, have been paid.

The law limits access by and disclosure to a third party. Such access is given only upon consent of the student or if required by law, except for the following information which may be released as directory information: a) student's name; b) dates of attendance; c) degree and awards received. Requests for such information must be submitted in writing to the registrar. The university reserves the right to refuse the above information if the reason for the request is not considered to be a sufficient need to know.

Any student or parent not wishing to have this information disclosed should notify the Office of the Registrar in writing prior to September 1st of the relevant school year.

A person does not have the right of access to educational records until he or she has been admitted to and has actually begun attending Nova University. There is no prohibition from disclosing such information to the parents of students who are listed on their parents' federal income tax forms.

Parents or eligible students will be provided a hearing by the University if they wish to challenge the content of the record. If they are still not satisfied, the parents or eligible students may add explanatory or rebuttal matter to the record.

If the students or parents are denied access to a hearing or if the records are alleged to have been illegally disclosed to a third party, the students or parents may file a complaint with the United States Department of Education.

The Nova University general policies on student relations are on file in the Office of the Registrar.

The provisions set forth in this bulletin are not to be regarded as an irrevocable contract between the student and Nova University. The regulations and requirements herein, including tuition and fees, are necessarily subject to change without notice at any time at the discretion of the administration. The University further reserves the right to require a student to withdraw at any time, as well as the right to impose probation on any student whose conduct is unsatisfactory. Any admission on the basis of false statements or documents is void upon the discovery of the fraud, and the student is not entitled to any credit for work which he may have done at the University. Upon dismissal or suspension from the University for cause, there will be no refund of tuition and fees. The balance due Nova University will be considered receivable and will be collected.

A transcript of a student's academic record cannot be released until all his/her accounts, academic and non-academic, are paid.

Any Nova University student has the right to inspect and review his/her educational record. The policy of the University is not to disclose personally identifiable information contained in a student's educational record without prior written consent from the student, except: to University officials, to officials of another school in which the student seeks enrollment, to authorized representatives of federal or state agencies, to accrediting organizations, to parents of dependent students, under judicial order, to parties in a health or safety emergency, or when verifying graduation with a particular degree.

A student also has the right to petition Nova University to amend or correct any part of his/her educational record which he/she believes to be inaccurate, misleading, or in violation of the privacy or other rights of students. If the University decides it will not amend or correct a student's record, the student has a right to a hearing to present evidence that the record is inaccurate, misleading, or in violation of the privacy or other rights of students.

If these rights are violated, a student may file a complaint with the Department of Education. A student may obtain a copy of the Educational Privacy Act policy by requesting it in writing from the Director of Student Services, Nova University, Parker Building, 3301 College Avenue, Fort Lauderdale, Florida 33314. A schedule of fees and a listing of the types and locations of educational records is contained in this policy.

Nova University does not discriminate on the basis of handicap, sex, race, religion, national or ethnic origin in admission, access or employment for any of its programs and activities. The University Registrar and Director of Personnel have been designated as student and employee coordinators, respectively, to assure compliance with the provisions of the applicable laws and regulations relative to non-discrimination. Nova University programs are approved by the coordinator for Veterans Approval, State of Florida, Department of Education, for veterans' educational benefits.

The school is authorized under Federal Law to enroll non-immigrant alien students.

The Nova University general policies on Student Relations are on file in the Office of the Registrar.
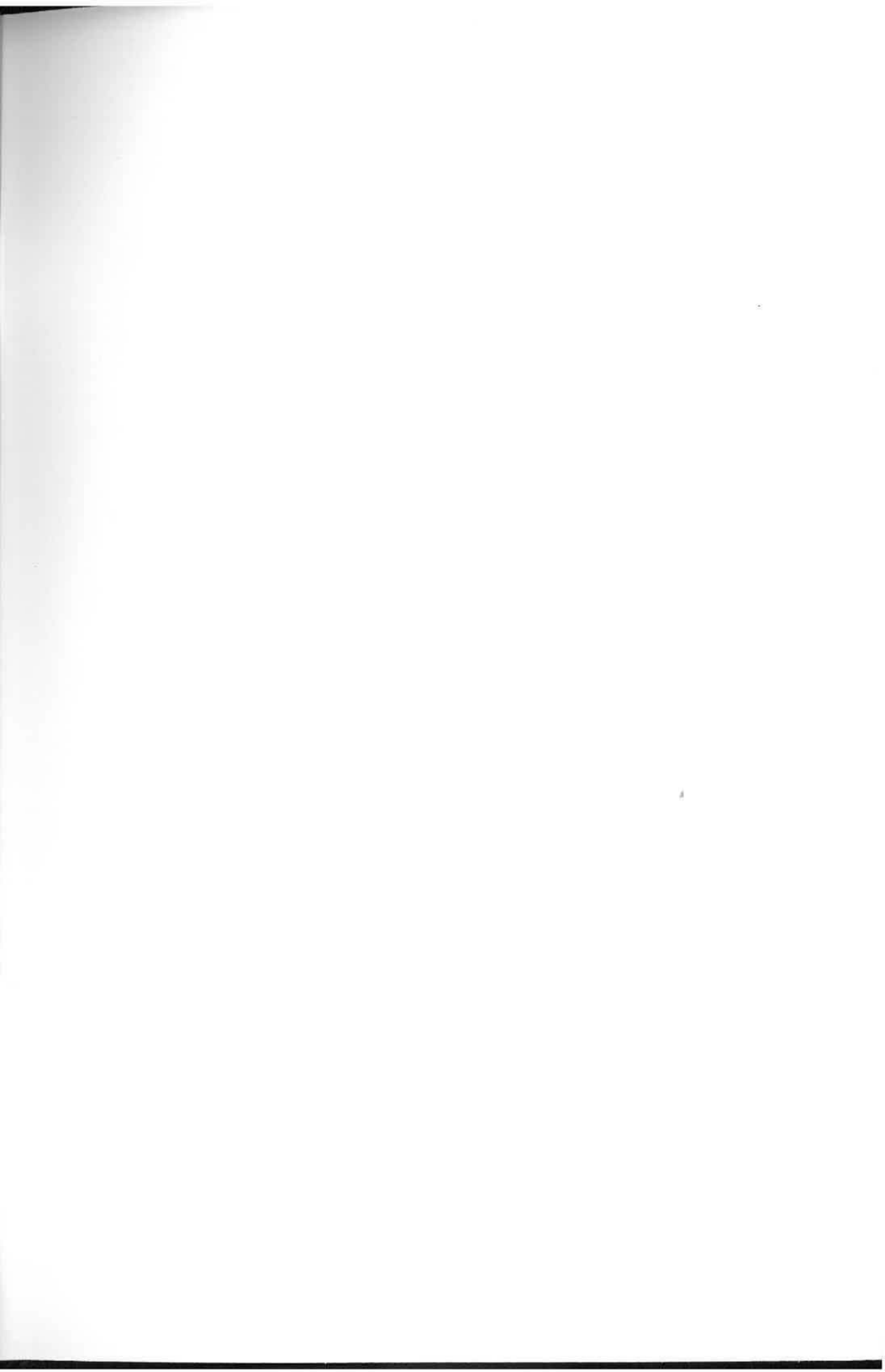
NOVA

UNIVERSITY

CENTER FOR COMPUTER-BASED LEARNING
3301 College Avenue
Fort Lauderdale, Florida 33314