

## A Message to Students

### A Message to Students

Welcome to the University of Delaware and to a new and exciting time in your life. UD is on a Path to Prominence™. We've pledged to apply the strengths and resources of the University to benefit the greater Delaware community; to foster a robust educational environment in which all people are welcomed; to create and expand innovative partnerships for economic and community development; to engage students, faculty and staff in the most compelling challenges of our age; and to make a significant difference in the state, the nation and the world. In short, we're leading in ways that matter, and you're now a critical part of this mission.??

The University of Delaware's commitment to excellence began in 1743, when the Rev. Francis Alison founded the small private academy to which UD traces its roots. Much has changed since then, but one thing has endured—a UD education prepares students to be engaged, contributing citizens.??Whether you're entering UD as an undergraduate or a graduate student, this catalog will help you map an exciting journey at the University as you challenge yourself to be first in what matters to you.

Undergraduates may choose from nearly 140 majors and 90 minors. Whatever your academic path, you'll find a campus-wide commitment to undergraduate education. It's not uncommon for UD faculty members to teach freshman-level courses, nor is it uncommon for their work with undergraduates to extend beyond the classroom.??Discovery learning is a signature feature of a UD education, and it's one you should take advantage of—beginning in your freshman year. UD is a national leader in undergraduate research, and most faculty sponsor undergraduate research projects. The University offers many service-learning opportunities and—for the fourth-straight year—has won the federal government's highest honor for community service. I encourage you to visit the Office of Undergraduate Research and the Office of Service Learning when you arrive on campus.

Your academic experience must prepare you for citizenship in a global society. In 1923, the University sponsored the U.S.'s first study-abroad program, and today UD ranks among the top public doctoral universities in the share of undergraduates who study abroad. The University now offers programs in 50 countries on all seven continents, and most programs are faculty-led.

UD is a premier graduate university—in the top tier of research institutions as classified by the Carnegie Foundation. The University enrolls nearly 3,700 graduate students in 50 doctoral and nearly 120 masters programs—many ranked among the best nationwide. Whatever program you pursue, you'll study with highly acclaimed scholars working at the frontiers of their fields. You'll also have access to advanced research facilities, including one of the largest libraries in North America.?

Many opportunities are available to you on and off the UD campus. I urge you to challenge yourself academically, to indulge your passion for learning, to be a responsible citizen in our community and to make the most of your Delaware experience.

Sincerely,  
Patrick T. Harker

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Environment

A complete list of UD faculty and staff is  
available online. Specific URLs can be found  
under department and program descriptions in  
this catalog.

## **SYNOPSIS OF BACCALAUREATE DEGREE PROGRAMS**

### **COLLEGE OF AGRICULTURE AND NATURAL RESOURCES**

Bachelor of Science

Agriculture and Natural Resources  
Agricultural Education  
Animal and Food Sciences  
Ecology  
Engineering Technology (includes Construction  
Technology and Technical Management, and  
Natural Resources Engineering Technology)  
Entomology  
Environmental Soil Science  
Food and Agribusiness Marketing and  
Management  
Food Science  
Landscape Horticulture and Design (includes  
Landscape Horticulture, Landscape Design, and  
Public Horticulture)  
Natural Resource Management  
Plant Protection  
Plant Science  
Pre-Veterinary Medicine and Animal Biosciences  
Resource Economics (includes Environmental  
Economics and Sustainable Development)  
Statistics  
Wildlife Conservation

### **COLLEGE OF ARTS AND SCIENCES**

Bachelor of Arts

Ancient Greek and Roman Studies  
Anthropology  
Anthropology Education  
Art  
Art Conservation  
Art History  
Asian Studies  
Biological Sciences  
Biological Sciences Education

Black American Studies  
Chemistry  
Chemistry Education  
Chinese Studies  
Communication (includes Interpersonal, Mass Communication)  
Comparative Literature  
European Studies  
Criminal Justice  
English (includes, Creative Writing, Drama, Ethnic/Cultural Studies, Film, Literary Studies, Professional Writing)  
English Education  
Foreign Languages and Literatures (includes Ancient Greek and Roman Studies, French Studies, German Studies, Italian Studies, Russian Studies, Spanish Studies, Three Languages)  
French Education  
French/Political Science  
German Education  
German/Political Science  
History (includes American History, European History, and World History)  
History Education  
History/Classics  
History/French  
History/German  
History/Russian  
History/Spanish  
International Relations  
Italian Education  
Japanese Studies  
Latin American Studies  
Latin Education  
Linguistics  
Mathematical Sciences  
Mathematics Education  
Music (includes Music Management Studies)  
Philosophy  
Physics  
Physics Education  
Political Science (includes American Politics, Global Studies, Public Law)  
Political Science Education  
Psychology  
Psychology Education  
Sociology (includes Emergency and Environmental Management, Health Services, Law and Society, and Social Welfare)  
Sociology Education  
Spanish Education  
Spanish/Political Science  
Women's Studies (includes Women in Global Perspective, Domestic Violence Prevention and Services)

Bachelor of Arts in Liberal Studies

Liberal Studies

Bachelor of Fine Arts

Fine Arts

Visual Communications

Bachelor of Music

Applied Music-Instrumental (Winds, Strings, and Percussion)

Applied Music-Keyboards (Piano, Organ, Harpsichord)

Applied Music-Guitar

Applied Music-Voice

Music Composition

Music Education-Instrumental (Winds, Strings, and Percussion)

Music Education-General/Choral (includes Piano, Voice)

Music History & Literature

Music Theory

Bachelor of Science

Apparel Design

Biochemistry

Biological Sciences (includes Biotechnology, Cellular and Molecular Biology and Genetics, Pharmaceutical Sciences)

Chemistry (includes Environmental Chemistry)

Cognitive Science

Fashion Merchandising

Mathematical Sciences

Mathematics Education

Mathematics and Economics

Neuroscience

Organizational and Community Leadership

Physics (includes Astronomy/Astrophysics)

Public Policy

Psychology

Quantitative Biology

## **ALFRED LERNER COLLEGE OF BUSINESS AND ECONOMICS**

Bachelor of Arts

Economics (includes Applied Economics, Economic Theory and Econometrics, Economics Education)

Bachelor of Science

Accounting

Economics (includes Applied Economics, Economic Theory and Econometrics)

Finance

Hotel, Restaurant and Institutional Management

International Business Studies

Management Information Systems

## **SYNOPSIS OF HONORS BACCALAUREATE DEGREE PROGRAMS**

Management  
Marketing  
Operations Management  
Sport Management

### **COLLEGE OF ENGINEERING**

Bachelor of Biomedical Engineering

College of Engineering (interdepartmental degree)

Bachelor of Chemical Engineering  
Chemical Engineering

Bachelor of Civil Engineering  
Civil Engineering

Bachelor of Computer Engineering  
Computer Engineering

Computer Science, BA and BS  
Computer and Information Sciences

Bachelor of Electrical Engineering  
Electrical Engineering

Energy and Environmental Policy, BS  
College of Engineering

Bachelor of Environmental Engineering  
Environmental Engineering

Information Systems, BS  
Computer and Information Sciences

Bachelor of Mechanical Engineering  
Mechanical Engineering

### **COLLEGE OF HEALTH SCIENCES**

Bachelor of Science

Applied Nutrition  
Athletic Training  
Dietetics  
Exercise Science (includes Biomechanics, Exercise Physiology, and Medical Scholars)  
Health Behavior Science  
Health and Physical Education  
Health Studies  
Medical Technology  
Nutritional Sciences

Bachelor of Science in Nursing

Nursing  
Baccalaureate for the Registered Nurse (B.R.N.)  
)

### **COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT**

Bachelor of Science in Education  
Elementary Teacher Education

Bachelor of Science

Early Childhood Education  
Human Services - Administration and Family Policy  
Human Services - Clinical Services  
Human Services - Community Education  
Human Services - Family and Consumer Sciences Education

### **COLLEGE OF EARTH, OCEAN, AND ENVIRONMENT**

Bachelor of Arts

Earth Science Education  
Environmental Studies  
Geography  
Geography Education  
Geology

Bachelor of Science

Environmental Science  
Geology  
Marine Science (Marine Biology)

## **SYNOPSIS OF HONORS BACCALAUREATE DEGREE PROGRAMS**

### **COLLEGE OF AGRICULTURE AND NATURAL RESOURCES**

Animal and Food Science, BS  
Dean's Scholar in Agricultural and Natural Resources, BS  
Ecology, BS  
Entomology, BS  
Environmental Soil Science, BS  
Food and Agribusiness Marketing and Management, BS  
Food Science, BS  
Landscape Horticulture and Design, BS  
Natural Resource Management, BS  
Plant Science, BS  
Pre-Veterinary Medicine and Animal Biosciences, BS  
Resource Economics, BS  
Wildlife Conservation, BS

## **COLLEGE OF ARTS AND SCIENCES**

Ancient Greek and Roman Studies, BA  
Anthropology, BA  
Anthropology Education, BA  
Apparel Design, BS  
Art History, BA  
Art Conservation, BA  
Asian Studies, BA  
Biochemistry, BS  
Biological Sciences, BA and BS  
Biological Sciences Education, BA  
Chemistry, BA and BS  
Chemistry Education, BA  
Cognitive Science, BS  
Communication, BA  
Criminal Justice, BA  
Dean's Scholar in Arts and Sciences  
English, BA  
English Education, BA  
European Studies, BA  
Fashion Merchandising, BS  
Foreign Languages/Political Science, BA  
Foreign Languages-Three Languages, BA  
French Studies, BA  
French Education, BA  
German Studies, BA  
German Education, BA  
History, BA  
History Education, BA  
History/Foreign Languages, BA  
International Relations, BA  
Italian Studies, BA  
Italian Education, BA  
Latin American Studies, BA  
Latin Education, BA  
Liberal Studies, B.A.L.S.  
Linguistics, BA  
Mathematical Sciences, BA and BS  
Mathematics and Economics, BS  
Mathematics Education, BA  
Music: BA, BM (Applied Music, Music Education)  
Neuroscience, BS  
Philosophy, BA  
Physics, BA and BS  
Physics Education, BA  
Political Science, BA  
Political Science Education, BA  
Psychology, BA and BS  
Psychology Education, BA  
Quantitative Biology, BS  
Russian Studies, BA  
Sociology, BA  
Spanish Studies, BA  
Spanish Education, BA  
Women's Studies, BA

## **ALFRED LERNER COLLEGE OF BUSINESS AND ECONOMICS**

Accounting, BS  
Economics, BA and BS  
Economics Education, BA  
Finance, BS  
Hotel, Restaurant and Institutional Management, BS  
International Business Studies, BS  
Management, BS  
Management Information Systems, BS  
Marketing, BS  
Operations Management, BS  
Sport Management, BSCOLLEGE OF ENGINEERING

Biomedical Engineering, BBE  
Chemical Engineering, BChE  
Civil Engineering, BCE  
Computer Engineering, BCpE  
Computer Science, BA and BS  
Electrical Engineering, BEE  
Environmental Engineering, BEnE  
Information Systems, BS  
Mechanical Engineering, BMECOLLEGE OF HEALTH SCIENCES

Applied Nutrition, BS  
Athletic Training, BS  
Dean's Scholar, BS  
Dietetics, BS  
Exercise Science, BS  
Health and Physical Education, BS  
Health Behavior Science, BS  
Medical Technology, BS  
Nursing, BSN.  
Nutritional Sciences, BS

## **COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT**

Early Childhood Education, BS  
Elementary Teacher Education, BSED  
Human Services, BS

## **COLLEGE OF EARTH, OCEAN, AND ENVIRONMENT**

Geography, BA  
Geography Education, BA  
Marine Science (Marine Biology)

## SYNOPSIS OF UNDERGRADUATE MINORS

### SYNOPSIS OF UNDERGRADUATE MINORS

#### COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

Animal Science, Kali Kniel - kniel@udel.edu

Engineering Technology, William Ritter -  
writer@udel.edu

Entomology, Jacob Bowman -  
jlbowman@udel.edu

Environmental Soil Science, David Frey - dfrey@  
udel.edu

Food and Agribusiness Marketing and  
Management, Steven Hastings -  
hastings@udel.edu

Food Science, Kali Kniel - kniel@udel.edu

Landscape Horticulture and Design, David Frey -  
dfrey@udel.edu

Operations Research, Tom Ilvento -  
ilvento@udel.edu

Resource Economics, Steven Hastings -  
hastings@udel.edu

Statistics, Tom Ilvento - ilvento@udel.edu

Wildlife Conservation, Jacob Bowman -  
jlbowman@udel.edu

#### COLLEGE OF ARTS AND SCIENCES

African Studies, Kelebogile Setiloane -  
ksetil@udel.edu

Material Culture Studies, Debby Andrews -  
dandrews@udel.edu

Anthropology, Jill Neitzel- neitzel@udel.edu

Art, Janet Hethorn - hethorn@udel.edu

Art History, H. Perry Chapman -  
pchapman@udel.edu

Asian Studies, Alice Ba- aliceba@udel.edu

Astronomy, Norbert Mulders -  
mulders@udel.edu

Biochemistry, John Burmeister -

jlburm@udel.edu

Biology, David Smith - dwsmith@udel.edu

Black American Studies, Yasser Payne -  
ypayne@udel.edu

Chemistry, John Burmeister - jlburm@udel.edu

Cognitive Science, Robin Andreasen-  
robina@udel.edu

Comparative Literature, Deborah Steinberger -  
steind@udel.edu

Computational Biology, David Usher -  
dusher@udel.edu

Dance, Joann Browning - jbrownin@udel.edu

English, Peter Feng- feng@udel.edu

Fashion History and Culture, Hye-Shin Kim -  
hskim@udel.edu

Foreign Languages

Ancient Greek and Roman Studies,  
Annette Giesecke - alg@udel.edu

Chinese, Jianguo Chen - chenjia@udel.edu

French, French Studies, Edgard Sankara -  
esankara@udel.edu

German, German Studies, Elizabeth Thibault -  
lisat@udel.edu

Italian, Laura Salsini - lsalsini@udel.edu

Japanese, Mark Miller - markm@udel.edu

Russian, Susan Amert - amert@udel.edu

Spanish, Spanish Studies, America Martinez -  
aml@udel.edu

History, Anne Boylan - aboylan@udel.edu

Irish Studies, John Montano - jpmon@udel.edu

Interactive Media, Betsy Perse- eperse@udel.edu

Islamic Studies, Patricia Sloane-White -  
pswhite@udel.edu

Jewish Studies, Heidi Kaufman -  
kaufman@udel.edu

Journalism, McKay Jenkins- mckay@udel.edu

Latin American Studies, Persephone Braham-  
braham@udel.edu

Legal Studies, Eric Rise- erise@udel.edu

Linguistics, Robin Andreasen- robina@udel.edu

Mathematics, Yuk J. Leung-  
yleung@math.udel.edu

Medical Humanities, Mark Greene -  
mkgreene@udel.edu

Medieval Studies, Daniel Callahan -  
dfcao@udel.edu

Music:

Applied Music: Orchestral instruments (winds,  
strings, and percussion); keyboard (piano,  
organ, harpsichord); guitar; voice,  
Mary Dunnack - mdunnack@udel.edu

Church Music, David Herman -  
herman@udel.edu

Jazz Studies, Tom Palmer - tpalmer@udel.edu

Music Composition, Mary Dunnack -  
mdunnack@udel.edu

Music Management Studies, John Sarro -  
jsarro@udel.edu

Musical Studies, Mary Dunnack -  
mdunnack@udel.edu

Philosophy, Joel Pust -jpust@udel.edu

Physics, Norbert Mulders - mulders@udel.edu

Political Communication, Ralph Begleiter -  
ralph.begleiter@udel.edu

Public Policy, Leland Ware - lware@udel.edu

Political Science, Jason Mycoff-  
mycoff@udel.edu

Psychology, Beth Morling - morling@udel.edu

Religious Studies, Alan D. Fox - afox@udel.edu

Sexualities and Gender Studies,  
Claire Rasmussen -cerasmus@udel.edu

Sociology, Jeffrey L. Davidson -

doctorj@udel.edu

Theatre, Allan Carlsen - acarlsen@udel.edu

Performance Studies

Theatre Production

Theatre Studies

Women's Studies, Jessica Schiffman -  
jesss@udel.edu

Women's Studies Domestic Violence Prevention  
and Services,  
Jessica Schiffman - jesss@udel.edu

## **ALFRED LERNER COLLEGE OF BUSINESS AND ECONOMICS**

Advertising, Sandra M. Fields -  
fieldss@lerner.udel.edu

Business Administration, Sandra M. Fields -  
fieldss@lerner.udel.edu

Economics, Eleanor Craig -  
craige@lerner.udel.edu

Entrepreneurial Studies, Scott Jones -  
sjones@udel.edu

International Business, Sandra M. Fields -  
fieldss@lerner.udel.edu

International Business Minor with Language,  
Sandra M. Fields - fieldss@lerner.udel.edu

International Business Studies, Jennifer Gregan-  
Paxton - greganj@lerner.udel.edu

Management Information Systems,  
Diane Wright - wrightd@lerner.udel.edu

## **COLLEGE OF ENGINEERING**

Biochemical Engineering, Anne Robinson -  
asr@udel.edu

Bioelectrical Engineering, Sylvain Cloutier -  
cloutier@udel.edu

Bioinformatics, Keith Decker - decker@udel.edu

Biomedical Engineering, Mechanical Engineering  
- info@me.udel.edu

Civil Engineering, Harry Shenton -  
shenton@ce.udel.edu

## **SYNOPSIS OF GRADUATE DEGREE PROGRAMS**

Computer Science, Keith Decker -  
decker@udel.edu

Electrical and Computer Engineering,  
Charles Boncelet - boncelet@udel.edu

Energy and Environmental Policy, John Byrne -  
jbyrne@udel.edu

Environmental Engineering, Pei Chiu -  
pei@ce.udel.edu

Nanoscale Materials, Ismat Shah -  
ismat@udel.edu

Materials Science and Engineering, Ismat Shah -  
ismat@udel.edu

Sustainable Energy Technology, Keith Goossen -  
goossen@ece.udel.edu

### **COLLEGE OF HEALTH SCIENCES**

Coaching Science, B.J. Ferguson,  
bferguso@UDel.Edu

Exercise Science, Joann Ciuffetelli, jnc@udel.edu

Leisure Service, Roger Spacht, rspacht@udel.edu

Medical Diagnostics, Anna Ciulla -  
aciulla@udel.edu

Nutrition, Susan Coffing - scoffing@udel.edu

Public Health, Susan Coffing - scoffing@udel.edu

Strength and Conditioning, Jeff Schneider  
-schneid@UDel.Edu

### **COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT**

Disabilities Studies, Laura Eisenman -  
eisenman@udel.edu

Educational Studies, David Blacker -  
blacker@udel.edu

Educational Technology, Fred Hofstetter -  
fth@udel.edu

Human Development and Family Studies,  
Donald Unger - unger@udel.edu

Urban Education , Vickie Lucas - vickie@udel.edu

### **COLLEGE OF EARTH, OCEAN, AND ENVIRONMENT**

Coastal and Marine Geoscience, Sue McGeary -  
smcgeary@udel.edu

Geology, Sue McGeary - smcgeary@udel.edu

Geography, Tracy DeLiberty - tracyd@udel.edu

Marine Studies, Frank Newton -  
fanewt@udel.edu

## **SYNOPSIS OF GRADUATE DEGREE PROGRAMS**

### **COLLEGE OF AGRICULTURE AND NATURAL RESOURCES**

Master of Arts

Agricultural Education

Master of Science

Agricultural and Resource Economics

Animal Science

Bioresources Engineering

Entomology

Food Science

Operations Research

Plant and Soil Sciences

Public Horticulture

Statistics

Water Science and Policy

Wildlife Ecology

Doctor of Philosophy

Animal and Food Sciences

Entomology and Wildlife Ecology

Operations Research

Plant and Soil Sciences

Water Science and Policy  
**COLLEGE OF ARTS AND  
SCIENCES**

Master of Arts

American Material Culture

Art History

Chemistry and Biochemistry

Communication

Criminology

English

Foreign Languages and Literatures

Foreign Languages and Pedagogy

History

Liberal Studies

Linguistics and Cognitive Science  
Political Science and International Relations  
Psychology  
Sociology  
Urban Affairs and Public Policy

Master of Fine Arts  
Fine Arts  
Theatre

Master of Music  
Music (includes Performance, Teaching and Composition)

Master of Public Administration  
Public Administration

Master of Science  
Applied Mathematics  
Art Conservation  
Biological Sciences  
Biomechanics and Movement Science  
Chemistry and Biochemistry  
Disaster Science and Management  
Fashion and Apparel Studies  
Mathematics  
Physics  
Water Science and Policy

Professional Science Master's  
Biotechnology

Doctor of Philosophy  
Applied Mathematics  
Art History  
Biological Sciences  
Biomechanics and Movement Science  
Chemistry and Biochemistry  
Criminology  
Disaster Science and Management  
English  
History  
Linguistics  
Mathematics  
Physics  
Political Science and International Relations  
Preservation Studies  
Psychology  
Sociology  
Urban Affairs and Public Policy  
Water Science and Policy

Doctor of Philosophy/Master of Business Administration  
Biological Sciences/Business Administration

## **ALFRED LERNER COLLEGE OF BUSINESS AND ECONOMICS**

Master of Arts  
Economics  
Economics and Entrepreneurship for Educators

Master of Arts/ Master of  
Business Administration  
Economics/Business Administration

Dual MBA and Engineering Master's Programs  
See the College of Engineering

Master of Business Administration  
Business Administration

Master of Business Administration /  
Master of Science  
Business Administration/Accounting  
Business Administration/Finance  
Business Administration/Organizational Effectiveness, Development and Change  
Business Administration/Information Systems and Technology Management

Master of Science  
Accounting  
Economics and Applied Econometrics  
Finance  
Hospitality Information Management  
Information Systems and Technology Management  
Organizational Effectiveness, Development and Change

Doctor of Philosophy / Master of Business Administration  
Biological Sciences/Business Administration

Doctor of Philosophy  
Economics  
Economic Education

## **COLLEGE OF ENGINEERING**

Certificate in Bioinformatics and Computational Biology

Master of Applied Sciences  
Civil Engineering

Master of Applied Science/MBA  
Civil Engineering/Business Administration

Master of Chemical Engineering  
Chemical Engineering

Master of Chemical Engineering/MBA  
Chemical Engineering/Business Administration

Master of Civil Engineering  
Civil Engineering

Master of Civil Engineering/MBA  
Civil Engineering/Business Administration

Master of Energy and Environmental Policy

Master of Science  
Bioinformatics and Computational Biology  
Biomechanics and Movement Science  
Computer Science  
Electrical and Computer Engineering  
Mechanical Engineering (thesis)  
Ocean Engineering  
Water Science and Policy

Master of Science/MBA  
Electrical and Computer Engineering/Business  
Administration  
Mechanical Engineering (thesis)/Business  
Administration

Master of Engineering: Mechanical  
Mechanical Engineering (non-thesis)

Master of Engineering: Mechanical/MBA  
Mechanical Engineering (non-thesis)/Business  
Administration

Master of Materials Science and Engineering  
Materials Science and Engineering

Master of Materials Science and Engineering/  
MBA  
Materials Science and Engineering/Business  
Administration

Professional Science Master's in Bioinformatics  
and Computational Biology

Doctor of Philosophy  
Biomechanics and Movement Science  
Chemical Engineering  
Civil Engineering  
Computer Science  
Electrical and Computer Engineering  
Energy and Environmental Policy  
Materials Science and Engineering  
Mechanical Engineering  
Ocean Engineering  
Water Science and Policy

## COLLEGE OF HEALTH SCIENCES

Master of Science  
Biomechanics and Movement Science  
Exercise Science (Biomechanics, Clinical Exercise  
Physiology, Exercise Physiology, Motor Control,  
Sports Medicine)  
Health Promotion  
Health Services Administration  
Human Nutrition

Master of Science in Nursing  
Nursing (Includes Adult Nurse Practitioner,  
Clinical Nurse Specialist, Family Nurse  
Practitioner, Health Services Administration, and  
Neonatal Nurse Practitioner Certification)

Doctor of Philosophy  
Applied Physiology  
Biomechanics and Movement Science  
(Interdisciplinary)  
Nursing

Certificate Programs  
Nutrition and Dietetics Certificate Program  
Post-Master's Certificate Program in Nursing

Doctor of Physical Therapy  
Physical Therapy  
COLLEGE OF EDUCATION AND  
HUMAN DEVELOPMENT

Master of Arts  
Education  
School Psychology  
Teaching English as a Second Language  
Teaching (M.A.T.)

Master of Education  
School Leadership  
Higher Education Administration  
Educational Technology  
Exceptional Children and Youth  
Reading

Master of Instruction  
Instruction

Master of Science  
Evaluation  
Human Development and Family Studies

Education Specialist  
School Psychology

Doctor of Education  
Educational Leadership

Doctor of Philosophy  
Economic Education

## University Calendar/The University

Education  
Human Development and Family Studies

Certificate Programs  
Human Services, Early Language and Literacy  
Human Services, Leadership in Early Childhood  
and Human Services  
Human Services, Parent Education and Family  
Support  
Human Services, Disability Leadership

4+1 Programs  
BS in Human Services/MS in Human Services  
Leadership  
BA in English/MA in Teaching English as a  
Second Language

### COLLEGE OF EARTH, OCEAN, AND ENVIRONMENT

Master of Arts  
Geography

Master of Science  
Geography  
Geology  
Marine Studies  
Ocean Engineering  
Water Science and Policy

Master of Marine Policy  
Marine Policy

Doctor of Philosophy  
Geography  
Geology  
Marine Studies  
Oceanography  
Ocean Engineering  
Water Science and Policy

Certificate of Geographic Information Science  
(GIS)

### University Calendar

University Academic Calendar

Questions regarding the calendar: Call  
the Registrar's Office at 831-1280 or email  
Registrar@udel.edu

\*The University reserves the right to change the  
University Calendar if it is deemed advisable.  
Advance notice of any change is given whenever  
possible.

## The University

Tradition and Innovation - Our History and Our  
Future

One of the oldest institutions of higher education  
in the country, the University of Delaware  
combines tradition and innovation, offering  
students a rich heritage along with the latest in  
instructional and research technology.

The University traces its origin to a small  
school in New London, Pa., opened in 1743 by  
the distinguished Colonial scholar, the Rev. Dr.  
Francis Alison. By 1765, the school had been  
moved to Newark, Delaware, where it received a  
charter as the Academy of Newark from Thomas  
and Richard Penn in 1769. The State of Delaware  
chartered the school in 1833, and the institution  
was renamed Delaware College in 1843. A  
Women's College was opened in 1914, and in  
1921, the two coordinate colleges were officially  
named the University of Delaware.

Graduate programs leading to a master's degree  
have been available since before the turn of the  
century. Doctoral programs have been offered  
since the 1940s. Currently, the University offers 4  
associate's programs, 127 bachelor's programs,  
84 master's programs, 42 doctoral degree  
programs through 46 departments in the seven  
instructional colleges, and 12 dual graduate  
programs. In the 2008-09 academic year, 188  
associate degrees, 3,500 bachelor's degrees, 695  
master's degrees, and 208 doctoral degrees were  
conferred.

Today, there are more than 135,000 active  
University of Delaware alumni who live in  
every state of the U.S. and more than 75 foreign  
countries.

A state-assisted, privately governed institution,  
the University of Delaware joined the ranks of  
historic land-grant colleges in 1867. Today, it is a  
land-grant, sea-grant, space-grant, and urban-  
grant Carnegie Doctoral/Research Extensive  
university. Midway between Philadelphia  
and Baltimore, the main campus is located in  
Newark, Delaware, a suburban community of  
30,000. But, courses are offered statewide, at  
locations including Wilmington, Dover, Milford,  
Georgetown, and Lewes. In addition to full-time  
and part-time educational opportunities, the  
University offers a rich array of public lectures,  
exhibitions, performances, service programs and  
athletic competitions.

The campus is a place of great beauty. In recent years, special enhancements have included renovations to classrooms, laboratories and virtually every building on campus as well as new construction projects. In addition to new construction, the University has an ongoing commitment to the restoration and renovation of historic buildings that are a special part of the central campus—a commitment recognized and praised by several external organizations.

The University works cooperatively with the area's unique cultural and technical institutions, and it provides the finest library facilities in the state.

### **Mission Statement**

The University of Delaware exists to cultivate learning, develop knowledge, and foster the free exchange of ideas. State-assisted yet privately governed, the University has a strong tradition of distinguished scholarship, research, teaching, and service that is grounded in a commitment to increasing and disseminating scientific, humanistic, and social knowledge for the benefit of the larger society. Founded in 1743 and chartered by the state in 1833, the University of Delaware today is a land-grant, sea-grant, space-grant, and urban-grant university.

The University of Delaware is a major research university with extensive graduate programs that is also dedicated to outstanding undergraduate and professional education. UD faculty are committed to the intellectual, cultural, and ethical development of students as citizens, scholars and professionals. UD graduates are prepared to contribute to a global and diverse society that requires leaders with creativity, integrity and a dedication to service.

The University of Delaware promotes an environment in which all people are inspired to learn, and encourages intellectual curiosity, critical thinking, free inquiry, and respect for the views and values of an increasingly diverse population.

An institution engaged in addressing the critical needs of the state, nation, and global community, the University of Delaware carries out its mission with the support of alumni who span the globe and in partnership with public, private, and nonprofit institutions in Delaware and beyond. Statement Of Responsibility

The University of Delaware community values both personal and academic freedom. All

members of the campus community have the personal responsibility to promote an atmosphere of civility in which the free exchange of ideas and opinions can flourish. We do so by learning from individual and collective differences and by respecting every human being. A Commitment To Diversity

The fundamental mission of the University is intellectual production and the education of new generations of citizens who must be prepared to live and work in an increasingly diverse and global world. We expect students, faculty, and staff to be part of a campus community where the intellectual environment embraces and inspires diverse thought, because we understand that this is the foundation of a 21st century university education. The University of Delaware defines diversity to mean the different views and experiences that are generated from a diverse population. We understand that only when we include the full range of human experience and expression do we foster the kind of intellectual and educational climate that embraces and inspires diverse thought. This means that the inclusion of historically underrepresented groups is fundamental to the University's educational and intellectual mission. As part of this effort, there is a University-wide commission, the Diversity and Climate Advisory Commission that is empowered to enhance the visibility of all aspects of diversity on the University campus and community. Diverse Colleges And Extensive Degree Programs

Academic degree programs are administered by seven colleges at the University, including Agriculture and Natural Resources; Arts and Sciences; Business and Economics; Engineering; Health Sciences; Education and Public Policy; and Earth, Ocean, and Environment. All seven colleges offer both undergraduate and graduate degrees. See a complete list of the University's extensive undergraduate and graduate degree programs.

Through the Associate in Arts Program, a special partnership between the University of Delaware and Delaware Technical & Community College (DTCC), students can earn their Associate in Arts degree at UD academic centers on the campuses of DTCC in Wilmington, Dover, and Georgetown. The Division of Professional and Continuing Studies extends the opportunities of the University to students throughout the state and beyond.

Since 1921, the University has been accredited by the Middle States Association of Colleges and

Secondary Schools. Professional accreditation also is held in Accounting, Athletic Training, Business Administration, Chemistry, Clinical Psychology, Dietetics, Disability Studies, Early Childhood, Education, Engineering, Engineering Technology, Food Science, Foreign Language and Pedagogy, Health and Physical Education, Medical Technology, Music, Nursing, Physical Therapy, and Public Administration. Academic Calendar

The University of Delaware follows a semester plan. Fall semester usually begins in September and ends in mid-December. The spring semester begins in February and ends in late May. During winter and summer sessions (described below), students may participate in off-campus field experiences, special projects for credit and a number of non-credit activities as well as regular academic courses. Classes are offered from 7:00 a.m. to 10:00 p.m. For more information on fall and spring semesters, call the Registrar's Office at (302) 831-2131.

The Summer program begins in early June and features two consecutive five-week sessions, as well as some classes that meet for 7-1/2 weeks. Winter Session is held in January and early February.

During Winter and Summer sessions, students may earn up to seven credits to accelerate progress toward a degree, to focus on a single subject, or to synchronize their course schedule with the sequence of fall and spring course offerings.

Besides on-campus courses, the Winter and Summer sessions offer travel study programs both abroad and within the U.S. (Read more about Study Abroad Programs in the "Opportunities to Enrich Your Undergraduate Education" chapter.) Special Sessions also allow students to complete popular courses that may be in high demand during regular semesters. The Library, Student Centers, Housing and Dining Services, Carpenter Sports Building, and other support services are active during special sessions. Cultural activities including films, concerts, bus excursions, and lectures are also available.

Before the registration period for each special session, students receive booklets containing detailed information and course listings. Winter session booklets are available on the first day of Fall classes, and registration begins early November. Summer session registration typically begins in early April. For more

information, call the Special Sessions Office, (302) 831-2853 or visit

<http://www.udel.edu/fanjoy/special-sessn.html>.

### **Students Are Our Focus**

Students are the focus of the University's academic programs. In fall 2009, 21,138 students were enrolled, including 16,521 undergraduate students, 3,634 graduate students, and 983 students in the Division of Professional and Continuing Studies. Of the undergraduate total, 764 were enrolled in the University's Associate in Arts degree program.

Entering 2009 freshmen typically ranked in the top quarter of their high-school graduating classes. Their average SAT verbal and mathematics scores were well above the national average for college-bound students.

Many members of the faculty, including distinguished professors, teach introductory courses, ensuring that students have early contact with eminent scholars. At the same time, the presence of able graduate students enhances undergraduate programs by providing educational models for students aspiring to advanced degrees.

### **Our Unique Research Opportunities**

While some institutions provide only limited research opportunities for undergraduates, a long-standing tradition at the University of Delaware encourages hands-on experience in research laboratories, libraries and field work for students. Each year, an increasing number of undergraduates collaborate with faculty on research projects of mutual interest. Many hold summer research fellowships, prepare senior theses, and make professional presentations. In 2008, for example, the Undergraduate Research Program served about 700 undergraduates, who tackled projects ranging from bone cancer to nanoparticles, from multilateral treaties to the preservation of outdoor community murals. (Be sure to read more about the Undergraduate Research Program in the "Opportunities to Enrich Your Undergraduate Education" chapter.)

Graduate students at Delaware make a major contribution to the University's objectives of creating, synthesizing, and disseminating knowledge. Through formal courses, seminars, independent studies, and research projects, students are introduced to existing knowledge in their fields and are provided with the principles

and techniques for independent thinking and research. Some graduate students are supported under faculty research grants from outside agencies.

Campus-wide, the University conducts a wide variety of basic and applied research. Additionally, because the University cooperates with other research institutions, industry, major laboratories, and neighboring museums, students have access to an even wider range of advanced research facilities. Research funding is provided by federal grants, state and industrial contracts, foundation grants, University funds and other sources. The University of Delaware Research Foundation (UDRF), a nonprofit foundation chartered in 1955 to support University research, awards grants in science and engineering to young faculty investigating promising ideas.

The University Of Delaware Press, a nationally recognized scholarly press, publishes the work of authors in many fields, including that of faculty members at this University.

Read more about research opportunities in the chapter "Research Centers, Institutes, and Special Facilities." Cooperative Programs With Other Institutions

### **Academic Common Market**

The University of Delaware participates in the Academic Common Market, an agreement among 16 member states of the Southern Regional Educational Board (SREB). The agreement enables students to pursue unique majors offered at publically-funded institutions in the SREB states while paying in-state tuition. For more information on program benefits and participating states and institutions, contact the Southern Regional Educational Board, 592 10th St. N.W., Atlanta, GA 30318-5776; Phone: 404-875-9211; Fax: 404-872-1477; <http://www.sreb.org/>.

### **Henry Francis du Pont Winterthur Museum, Eleutherian Mills-Hagley Museum And Library, Longwood Gardens**

The College of Arts and Sciences cooperates with the Henry Francis du Pont Winterthur Museum and the Eleutherian Mills-Hagley Museum and Library in providing graduate study in art conservation, early American culture, and American economic, technological, and business history. In the College of Agriculture and Natural Resources, a program in ornamental horticulture

was initiated in September 1967 in cooperation with Longwood Gardens.

Graduate students in the Early American Culture program work in the Henry Francis du Pont Winterthur Museum, which contains one of the largest collections of American art, including furniture, ceramics, textiles, folk art, silver, glass, and paintings. The Museum is open to Winterthur Fellows for museum training and to both fellows and staff for research.

### **ORAU**

Since 1980, students and faculty of the University of Delaware have benefited from its membership in Oak Ridge Associated Universities (ORAU). ORAU is a consortium of 98 doctoral-granting members located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

For more information about ORAU and its programs, please visit <http://www.orau.org/>.

### **SURA**

The University of Delaware is a member of Southeastern Universities Research Association (SURA), a consortium of over 60 universities across the U.S.. The organization's purpose is to serve as an entity through which colleges, universities, and other organizations may cooperate with one another and with government and other organizations in acquiring, developing, and using laboratories, machines, and other research facilities and in furthering knowledge in the physical, biological, and other natural sciences and engineering. Further information about SURA can be found on the World-Wide Web at: <http://www.sura.org>. Keeping Informed And Involved

#### **Senior Class Gift**

The Senior Class Gift is an opportunity for seniors to show their appreciation for all the opportunities they have had at the University. Each graduating class member is asked to make a contribution, honoring a tradition and creating a legacy of support. Seniors are encouraged to give back to an area that they are passionate about – their college, department, student club, or anywhere on campus.

#### **UD Parents Fund**

The UD Parents Fund provides Student Life with valuable resources to support the educational

mission of the University through innovative services and programs that support student learning, encourage personal development and well-being, facilitate strong bonds among students, and enhance their identity with the University as a community.

The strategic methods to accomplish these goals require additional investment in the First Year Student Experience, Career Services, Student Leadership Development, and Late Night & Weekend Programs – including speakers, cultural events, and student initiated activities that promote healthy lifestyle choices for UD students.

#### Making a Gift to UD

Although the University of Delaware is known as a public institution, only a portion of operating funds comes from the state. Less than 13% of annual revenue is provided by the State of Delaware. A common misconception is that tuition alone covers the cost of educating our students. In fact, tuition and fees make up just a fraction of that cost, to the tune of 32% for Delaware residents and 79% for out-of-state students. The rest must come from other sources – such as gifts from alumni, parents, and friends.

All gifts made to the University of Delaware, a not-for-profit institution, are tax deductible. There are many convenient ways to make a gift.

**Online:** The fastest way to make a gift is to use our online giving form at [www.udel.edu/makeagift](http://www.udel.edu/makeagift). You can choose to pay via check or credit card online. Our secure site ensures that your personal information is processed in a safe and protected environment.

**Check:** You can send a check, payable to the University of Delaware, to Office of Annual Giving, 011 Hullahen Hall, Newark, DE 19716. Be sure to note your gift designation in the memo section of your check.

**Phone:** Call toll-free (866) 535-4504 to make your gift over the phone Monday through Friday, 8:30 A.M. to 5:00 P.M.

For more options on making a gift, please visit [www.udel.edu/giving](http://www.udel.edu/giving).

#### Alumni Relations

The Office of Alumni Relations increases engagement and promotes lifelong relationships and learning with our current and future alumni. The office extends and enriches the UD experience by providing networking opportunities, programs, activities, and services

that celebrate our alumni and the University. Alumni Relations strives to instill pride in the University by fostering traditions and strong connections among alumni, students, faculty, staff, and UD friends. The office conducts programs and activities for diverse constituencies including regional club events, class reunions, and Alumni Weekend.

The University of Delaware Alumni Association's (UDAA) mission is to advance the interest, influence and purpose of the University of Delaware, to maintain and advance the cause of education and to promote beneficial relations among its members, between the University and the Association, and between the undergraduate body and the Association. The UDAA hosts many programs and recognition ceremonies such as the Commencement Delegate reception, Alumni Wall of Fame, Outstanding Alumni Award, and Warner and Taylor Awards for Outstanding Seniors.

The Office of Alumni Relations manages the alumni community at [www.UDconnection.com](http://www.UDconnection.com). The online community allows alumni to browse the online directory, access UD news, network with fellow Blue Hens and stay involved with UD.

#### Research Centers, Institutes, and Special Facilities

The University maintains a number of research centers and institutes that focus on a variety of subjects relevant to advanced scholarly investigation of special interest to the faculty and the public. The research and activities of these special units greatly enhance the undergraduate and graduate program offerings at the University.

The University also hosts scholarly and professional organizations such as the American Philosophical Association, the Mid-Atlantic Association of Museums, and the Urban Affairs Association. Agricultural Experiment Station

The Experiment Station serves as the research arm for the College of Agriculture and Natural Resources. Projects, both fundamental and applied, address many aspects of agriculture and life science, including biotechnology, production agriculture, wildlife conservation, land use, and natural resource management. Experiment station research contributes to increased and efficient production, improved marketing of agricultural products, and preservation of our natural environment. A majority of the professors in the College of Agriculture and

Natural Resources have appointments in the station.

Students find many opportunities to work on independent study projects that introduce them to biological, economic, and engineering technology research in the agricultural and related disciplines.

For more information, please visit: [ag.udel.edu/research/agexperimentalstation.htm](http://ag.udel.edu/research/agexperimentalstation.htm) Applied Science & Engineering Laboratories

For additional information, please visit: [www.asel.udel.edu/Art](http://www.asel.udel.edu/Art) Conservation Laboratories at Winterthur

The Art Conservation Department at the University of Delaware in Newark, Delaware is housed in Old College. This building is on the historic register and houses two history of technology studios, a photographic materials and conservation laboratory, and administrative offices. Material Culture Preservation undergraduate students work primarily at the Newark campus and have access to objects from the University Museums, that contain archaeological and ethnographic materials, a diversity of Western European medieval to contemporary works, a large collection of gems and minerals, and the Paul R. Jones Collection of African Art.

In the Crowninshield Research Building of the Winterthur Museum & Country Estate (15 miles north of the University of Delaware) there are 26 conservation studios, laboratories, examination rooms, and workshops used by faculty and students in our graduate programs. The Winterthur Scientific Research and Analysis Laboratory is equipped with state-of-the-art analytical instrumentation. Our students have regular access to Winterthur's internationally recognized collections—nearly 100,000 American decorative art objects housed in 180 period room settings and an associated exhibition building—as well as a comprehensive American material culture research library.

For additional information, please visit [www.artcons.udel.edu/faculty-and-facilities/facilities](http://www.artcons.udel.edu/faculty-and-facilities/facilities) Avian Biosciences Center

The Avian Biosciences Center is a multi-disciplinary unit housed within the College of Agriculture and Natural Resources. The Center's programs are focused on protecting poultry health by developing strategies for disease surveillance, diagnosis, and control; applying

knowledge from avian genomics to diagnose and control poultry diseases and improve the efficiency of poultry production; developing innovative approaches to ensure poultry production is compatible with our environment; and integrating advances in food science into innovative technologies that ensure the safety of poultry products.

For more information, visit the Center's website at <http://ag.udel.edu/abc/index.html> or contact the director, Dr. Jack Gelb at [jgelb@udel.edu](mailto:jgelb@udel.edu). Bartol Research Institute

The Bartol Research Institute is a research center within the Department of Physics and Astronomy. The primary function of the Institute is to carry out forefront scientific research, with a primary focus in physics, astronomy and space sciences.

Research areas in which Bartol is especially active include cosmic rays, the interplanetary medium, planetary magnetic fields, condensed matter physics, stellar physics, nuclear theory, elementary particle theory, particle astrophysics and cosmology. In addition to its laboratories on the Newark campus of the University, Bartol operates experimental facilities in Antarctica, Greenland and northern Canada.

For more information, please see [www.bartol.udel.edu](http://www.bartol.udel.edu). Elbert N. and Ann V. Carvel Research and Education Center

The facility's staff is responsible for conducting Cooperative Extension and Research Programs aimed at improving the quality of life through the transfer of research-based information to the consumer.

For more information, please visit: [ag.udel.edu/rec/Catalysis](http://ag.udel.edu/rec/Catalysis) Center for Energy Innovation The Catalysis Center for Energy Innovation (CCEI) seeks to develop catalytic technologies for sustainable energy applications through a spectrum of processes envisioned in a future biorefinery. New technologies include novel pyrolysis for biomass degradation, selective catalytic transformation of biomass derivatives, and novel fuel cells.

For additional information, please visit: [www.efrc.udel.edu/Center](http://www.efrc.udel.edu/Center) For Applied Coastal Research

Established in 1989 within the Department of Civil and Environmental Engineering, the Center for Applied Coastal Research offers one of the nation's foremost graduate programs in coastal

and ocean engineering, leading to both master's and doctorate degrees. To achieve its mission to maintain an intercollege national center for research in coastal and nearshore problems, the center provides state-of-the-art research equipment and prompt technology transfer of knowledge to industry and government. Center participants provide a wide range of expertise and include members of the Civil and Environmental Engineering faculty, as well as individuals from the Physical Ocean Science and Engineering Program, College of Earth, Ocean, and Environment.

For more information, please see [www.coastal.udel.edu](http://www.coastal.udel.edu). Center For Applied Demography And Survey Research (CADSR)

The Center for Applied Demography and Survey Research (CADSR), part of the College of Education and Public Policy, functions in three basic ways:

- as a subcontractor to University faculty and professional staff members who hold research contracts;
- as a prime contractor to other units of the University, to federal, state, and local government agencies, and to private firms; and
- as an archive of numerous local and national databases.

CADSR's substantive areas of expertise include demography, health, transportation, economic impact, and geographic information systems.

CADSR is organized to provide the following types of services: (1) sample and questionnaire design, (2) data collection and survey management, (3) coding, editing, and data entry, (4) CATI and web surveys and, (5) archive and dissemination. Together these services form a complete package that can be offered in part or as a whole to the client. For more information, please see [www.cadsr.udel.edu](http://www.cadsr.udel.edu). Center For Applied Science And Engineering In Rehabilitation (ASEL)

The Center for Applied Science and Engineering in Rehabilitation is an internationally recognized interdisciplinary center comprising laboratories devoted to activities linking science, technology, and disability. The center conducts basic and applied research leading to the development of technologies for people with disabilities, evaluates the effectiveness of tools and techniques in increasing functional abilities, fosters innovation in effective use of and

promotes access to technology applications for persons with disabilities, and disseminates outcomes stemming from center activities. Current research projects investigate: 1) new communication devices that employ artificial intelligence and natural language processing; 2) alternative representations of language (e.g., graphics and animation); 3) new speech interfaces for communication; 4) computer tutoring systems for speech and writing; 5) biomechanical devices for restoring/augmenting motor function. The Center also houses the Delaware Assistive Technology Initiative (DATI), which addresses the availability and effective use of assistive technologies. DATI projects include the operation of Assistive Technology Resource Centers in each of Delaware's counties, policy initiatives aimed at improving access to and funding for devices and services, and training and technical assistance efforts promoting technology use at home, in school, at work, and in the community. Outcomes of Center activities are disseminated through publications, a website, meetings, and targeted technical assistance at the local, state, national, and international levels.

For more information, please see [www.asel.udel.edu](http://www.asel.udel.edu). Center For Archaeological Research

The Center for Archaeological Research is part of the Department of Anthropology in the College of Arts and Sciences. With its focus on the prehistoric and historic archaeology of the Middle Atlantic states of Delaware, Maryland, Virginia, Pennsylvania, and New Jersey, the center provides opportunities for undergraduate and graduate students to participate in archaeological fieldwork and laboratory analysis through field schools and sponsored research programs. Research activities of the center have been sponsored by a number of state and federal agencies. Current sites under study range from a 10,000-year-old Paleo-Indian hunting camp in Southern Delaware to a 3,000-year-old Woodland period hamlet in central Delaware, to a mid-17th century plantation on the Eastern Shore of Maryland, to mid-19th century tenant farms in Northern Delaware. Opportunities for multi-disciplinary research are available and include applications of remote sensing in archaeology (Center for Remote Sensing) and paleoenvironmental studies (Department of Geological Sciences).

For more information, please e-mail [jcuster@udel.edu](mailto:jcuster@udel.edu). Center for Bioinformatics & Computational Biology  
The Center for Bioinformatics & Computational

Biology (CBCB) is an interdisciplinary, cross-campus and inter-institutional initiative for the Delaware research and education community, and is built on the Bioinformatics core at the Delaware Biotechnology Institute (DBI) and the bioinformatics infrastructure of the Protein Information Resource (PIR).

For additional information, please visit: [bioinformatics.udel.edu/Center For Biomedical Engineering Research \(CBER\)](http://bioinformatics.udel.edu/Center For Biomedical Engineering Research (CBER))

The Center for Biomedical Engineering Research, CBER, is an interdisciplinary center whose mission is to provide engineering science and clinical technology to reduce the impact of disease on the everyday life of individuals. It was created to provide an appropriate forum and infrastructure to promote the interaction of biomedical researchers from the university and the medical community. As such, it serves as a research umbrella under which investigators from a variety of fields can work together and interact. CBER builds on a history of interaction between the Department of Mechanical Engineering, the Department of Physical Therapy, the Department of Health, Nutrition, and Exercise Sciences and several local clinical facilities such as the A.I. duPont Institute. Through the Department of Mechanical Engineering, CBER researchers have access to an array of computer hardware and software, a variety of mechanical testing equipment, a complete machine shop, as well as biomechanics laboratories for tissue engineering, motion analysis, and electromyography. The Human Performance Laboratory in the Department of Health, Nutrition, and Exercise Sciences houses a state-of-the-art motion analysis facility complete with high-speed cameras, multi-axis force plates, an EMG telemetry unit, and a variety of computer and ancillary equipment. The Motion Analysis Laboratory in the Physical Therapy Department is similarly equipped with a VICON-based system. The laboratory can be configured to study almost any type of motion. Presently, a number of research topics are being addressed. Several examples are: a study of knee ligament injuries, design and control of robotic manipulators for the disabled, position and force measurements during athletic activities, characterization of neuromuscular mechanisms for knee joint stability, evaluating the effects of surgery on gait, testing of surgical and protective devices, modeling the fatigue properties of skeletal muscle, simulation of muscle coordination following stroke, and investigating fluid and solute transport in bone.

For more information, please see [www.cber.udel.edu](http://www.cber.udel.edu).

### **Center for Carbon-free Power Integration**

Administered by the College of Earth, Ocean, and Environment, the Center for Carbon-free Power Integration (CCPI) conducts research, publishes, and is a catalyst for knowledge-based partnerships--all related to three aspects of electric power: power production from utility-scale geophysical sources, such as wind and ocean currents, changes in transmission planning to accommodate carbon-free power sources, and storage needed to integrate large-scale carbon-free power systems.

The mission of the Center for Carbon-free Power Integration (CCPI) is to conduct scientific research on power from fluid flows in the environment, engineering analysis of methods to convert, transmit and store that power, and to conduct policy analysis of rules to integrate those sources into today's policy and planning processes. Research is concentrated in the physical oceanography of the coastal region, geophysical power resources in the offshore area (mainly wind and ocean currents), and the social science and public policy related to such resources.

Our name captures major aspects of our research efforts, each having science, engineering, and policy aspects.

**Carbon Free:** Our power generation focus is on geophysical fluid flows; for example, surface winds, ocean currents, and geostrophic winds, primarily in large-scale generation facilities rather than smaller distributed ones.

**Power:** Our emphasis is on power, not energy, on geophysical sources of power, and on how fluctuating power flows can be integrated into large-scale electrical power systems.

**Integration:** In the word "Integration" we include power flow integration, which may require transmission or energy storage, and we also include integration into power system decision-making, which requires study of public and institutional reactions and may involve developing different forms of analysis, planning, and regulations. CCPI has six faculty researchers drawn from three UD colleges and draws on expertise in engineering, law, business, meteorology, and anthropology.

Researchers at CCPI have carried out surveys

of public opinion about offshore wind. They often consult with the Federal Government, and with several state governments. They have conducted extensive analysis of policy and law related to offshore wind and often are called to testify. Researchers at the CCPI are also leaders in the evaluation of technical methods of the transmission and storage needed to support large-scale carbon-free power systems. They have been involved in the development of vehicle-to-grid (V2G) systems in which the battery of a parked electric-propulsion vehicle can be plugged into a utility network to not only charge the vehicle's battery but also be used as a big storage system from which the utility can draw power. The energy for charging the vehicle battery can come from electricity from any source but would derive the greatest environmental benefit if it came from a renewable (i.e. wind) source.

Professor Willett Kempton is the Director of CCPI and is active in these endeavors. He began developing the V2G technology more than a decade ago and now is testing a new prototype plug-in electric vehicle. Professor Kempton was one of the first recipients of a grant from Google.org's RechargeIT program which is designed to accelerate the adoption of plug-in hybrid electric vehicles.

The center was announced September 2008 and is part of the University of Delaware Energy Institute. In addition to research, CCPI supports graduate and undergraduate research. For more information, contact Dr. Willett Kempton, Director at (302) 831-0049 (willett@udel.edu) or visit [www.carbonfree.udel.edu](http://www.carbonfree.udel.edu).

### **Center For Catalytic Science And Technology**

The center educates graduate and undergraduate students in catalytic science and engineering in a laboratory that includes postdoctoral fellows and visiting scholars from industry and other universities. Center research involves reaction engineering, surface science, materials preparation, modeling, and surface characterization. Other work is directed toward disseminating knowledge of state-of-the-art catalysis research through preparation of short courses, textbooks, research publications, software, special seminars, and presentations at technical meetings. Students under center auspices may complete research required for the master's or Ph.D. degree in chemical engineering, chemistry, or materials science and engineering.

For more information, please see [www.che.udel.edu/ccst](http://www.che.udel.edu/ccst).

### **Center for Climate and Land-Surface Change**

The Center for Climate and Land-Surface Change is an interdisciplinary research center designed to foster collaboration between scientists at the University of Delaware who focus on climate and/or land surface processes. The Center affirms the University's commitment to developing research that seeks to answer questions about our changing planet. NASA, NOAA, NSF, State agencies, and local municipalities have funded research within the Center or within its predecessor the Center for Climatic Research.

From the outset, one of the main themes of research in the Center has been the role of water in climatology and land-surface processes. The work of John R. Mather and C.W. Thornthwaite, which began at the C.W. Thornthwaite Associates' Laboratory of Climatology, initially set the stage for Center-directed research. Emphasis on water in its many and varied forms remains dominant, with research on precipitation (global, arctic and tropical), atmospheric processes (vapor transport and atmospheric modeling), the cryosphere (glaciers, permafrost, sea ice, snow cover, and snowfall), vegetation, land-surface hydrology and water policy.

For more information, please see [www.udel.edu/Geography/CCR](http://www.udel.edu/Geography/CCR).

### **Center For Community Research and Service (CCRS)**

The Center for Community Research and Service (CCRS), part of the College of Arts & Sciences, provides education, usable knowledge, training, and services to help organizations and communities promote social and economic opportunity. CCRS is an integral part of the education of undergraduate and graduate students in the College, especially the students in the School of Urban Affairs and Public Policy. Students assigned to the Center either work directly with faculty and staff in conducting research and providing training and services or are placed in nonprofit or government agencies.

CCRS conducts applied research and evaluation projects in a range of areas, including local and community-based development, housing and homelessness, poverty and hunger, crime and family violence, urban and neighborhood planning and governance, media and communities, family/community relationships,

management of and leadership in nonprofit organizations, organizational strategic planning and analysis, and the design, implementation and evaluation of social service and community health programs. Students can also be involved in CCRS training courses, including the Nonprofit Management Certificate course and other workshops and seminars for nonprofit managers and community leaders. Some of the Center's major service programs are the Nonprofit Resource Library, KIDS COUNT/FAMILIES COUNT in Delaware, Public Allies Delaware, and the Blueprint Communities Delaware Program. For more information, please see [www.ccrs.udel.edu](http://www.ccrs.udel.edu).

### **Center For Composite Materials (CCM)**

Founded in 1974, the UD Center for Composite Materials (UD-CCM) is an internationally recognized, interdisciplinary research center of excellence with a three-fold mission.

#### **Educate Scientists And Engineers**

More than 100 graduate and undergraduate students and more than 250 researchers and staff members working at UD-CCM are currently affiliated with the College of Engineering and the Lerner College of Business and Economics, as well as the Departments of Physics & Astronomy and Chemistry & Biochemistry in the College of Arts and Sciences. Students at all levels are active participants in UD-CCM's interdisciplinary research teams. Students have the opportunity to interact with visiting students, faculty, and researchers from industry, government agencies, and universities throughout the world. In addition to a solid grounding in the fundamentals, students are exposed to practical insights into real-world engineering problems. Both graduate and undergraduate students gain valuable experience in documenting their work in conference proceedings, journals, and even patents.

UD-CCM has a unique collaboration with the University's Undergraduate Research Program that promotes cross-disciplinary education. Students may participate through the University's Science and Engineering Scholars Program, CCM's summer internship programs, CCM Senior Research Fellowships, or employment as an undergraduate research assistants during the academic year. More than 2,000 students have been associated with UD-CCM, and many are now teaching at more than 30 universities worldwide.

While UD-CCM plays an active role in education, degrees are earned through the academic programs of the various affiliated colleges, not through UD-CCM. Students should consult the departments in which they are interested for information on degree programs and application requirements.

#### **Conduct Basic And Applied Research**

Since 1986, UD-CCM has been host to six National Science Foundation/Department of Defense Centers of Excellence. Two Army Research Laboratory programs and an Office of Naval Research program are currently active centers of excellence. Supporters include a variety of national and international companies, federal agencies, and the State of Delaware.

In addition to its traditional core competencies in materials and synthesis, mechanics and design, processing science, and durability, UD-CCM's current emphasis is on new research into multifunctional composite materials that provide superior mechanical properties, energy absorption, fire resistance, and electro-optical properties for communications, health monitoring, prognostics and bio-inspired self-repair.

#### **Develop And Transition Technology To The Composites Community**

CCM's 34,000-square-foot Composites Manufacturing Science Laboratory houses state-of-the-art laboratories for polymer synthesis, chemical and thermal analysis, materials characterization from nano-scale to full-scale composite structures, processing, nondestructive inspection, and computation. The lab provides opportunities for interdisciplinary research teams to create workcells that combine simulations, sensors, and controls of existing processes as well as the creation of new ones. An additional 18,000 square feet of space is available in our off-site Application and Technology Transfer Laboratory.

UD-CCM's Industrial Consortium, long a Center hallmark, is a group of some 60 companies supporting UD-CCM's effort in transferring composites science and technology to the private and public sectors. Small, medium and large companies benefit from new ideas and new technologies. These same companies seek to employ the next-generation of engineering graduates.

To arrange an interview or request a copy of the CCM annual report, which includes history, additional program information, a list of laboratory resources, and posters of more than 120 ongoing projects, please visit CCM on campus at the corner of Delaware and Academy Streets or on-line at [www.ccm.udel.edu](http://www.ccm.udel.edu), or contact CCM at [info-ccm@udel.edu](mailto:info-ccm@udel.edu), or (302) 831-8149. Center For Critical Zone Research Delaware Environmental Institute

The mission of the Delaware Environmental Institute is to provide solutions to pressing environmental needs and produce strategies to address emerging environmental challenges by conducting research and promoting and coordinating knowledge partnerships that integrate environmental science, engineering and policy. The Delaware Environmental Institute (DENIN), a university-wide institute, will serve as the advocate for sustained strength and vitality in pioneering environmental research. The Institute will focus on research areas relevant to the challenges facing the state and the nation, and Institute research will inform decision makers by providing the knowledge that can help create sound environmental policies.

The Institute fosters a culture of scholarship that leverages the combined talents of affiliates and fellows through collaborative working groups, joint proposal development and, where synergistic, project resource coordination.

The Institute's goals are to initiate interdisciplinary research projects; support interdisciplinary academic programs; forge partnerships among government agencies, nonprofits, industry, policymakers, and the public to address environmental challenges; and coordinate and sponsor University-based interdisciplinary initiatives.

For more information, visit the Institute's website at <http://www.denin.udel.edu> or contact the director, Dr. Don Sparks at [dlsparks@udel.edu](mailto:dlsparks@udel.edu).

### **Center For Disabilities Studies (CDS)**

The Center for Disabilities Studies (CDS) is an interdisciplinary research, training and service center that is part of the College of Education and Human Development. The CDS focuses on improving the quality, quantity and range of public and private services and supports available locally, nationally, and globally for children, youth, and adults with disabilities and their families. The Center is one of a national network of 67 University Centers for Excellence in Developmental Disabilities Education,

Research, and Service.

CDS increases the capacity of individuals, agencies, and organizations to provide quality services; contributes to the knowledge base; promotes systemic improvements in policy and service delivery; and builds collaborative relationships with other organizations that enable people with disabilities to achieve their personal goals of greater independence, productivity, and participation in their communities.

CDS supports an interdisciplinary 18-credit undergraduate minor in disabilities studies. CDS also offers opportunities for both undergraduate and graduate students to work with faculty and staff on service and research projects.

For more information, please see [www.udel.edu/cds](http://www.udel.edu/cds).

### **Center For Drug And Alcohol Studies (CDAS)**

The Center for Drug and Alcohol Studies (CDAS) was established at the University of Delaware in 1991 to facilitate collaborative research and publishing among social and behavioral science faculty, professional staff, and students in the field of substance abuse. Administered by the University's Department of Sociology and Criminal Justice, the center is funded primarily through sponsored research grants and contracts. CDAS has offices in Newark, DE and the Miami, FL area.

The principal mission of CDAS is the production, dissemination, and utilization of scientific knowledge in three broad areas:

- The etiology, patterns and consequences and prevention and treatment of drug and alcohol abuse;

- The epidemiology of HIV/AIDS and other sexually-transmitted infections, and the prevention of such infections among high-risk populations;

- The prevalence and patterns of health-risk behaviors among adolescents and young adults.

Other CDAS objectives include:

- Training graduate and undergraduate students in substance abuse research and associated quantitative and qualitative methods;

- Serving as a substance abuse research information repository for students and colleagues seeking statistical and ethnographic data for secondary analysis;

Providing technical assistance to colleagues and local agency personnel seeking federal grant support for prevention and treatment programs; and

Sponsoring lecture and colloquia series, workshops, and conferences for members of the University community, the substance abuse and AIDS fields, and the public at large.

CDAS has conducted a series of major national studies of drug treatment for individuals involved with the criminal justice system over the past 20 years. In spring 2009, CDAS became one of nine research centers nationally that will be leading research on implementing new policies and practices for assessing and treating substance abusers within the criminal justice system. Other ongoing epidemiological, etiological and evaluation studies include youth substance abuse in Delaware and the nation, studies of drug court and parole clients, and long term panel studies of treatment clients. In Delaware, CDAS directs the activities of the State Epidemiological Work Group for substance abuse.

CDAS researchers in Miami have been funded by the National Institutes of Health to conduct studies of the abuse of prescription drugs and their diversion to the illegal marketplace. In addition, with funding from Denver Health and Hospital Authority and the support of the Food and Drug Administration, since 2002, CDAS has been conducting quarterly surveys of the illegal sales of prescription narcotics in more than 300 jurisdictions across the United States. CDAS also has major AIDS prevention initiatives in Florida, Latin America, and the Caribbean. The focus of these initiatives is the development and evaluation of culturally specific HIV prevention programs for hard-to-reach and under-served populations.

For more information please see <http://www.udel.edu/cdas/>.

#### Center for Economic Education & Entrepreneurship

The ultimate goal of the Center for Economic Education and Entrepreneurship at the University of Delaware is to continue to provide educators with high quality programs and workshops that increase the knowledge and understanding of economics and entrepreneurship in all curriculums for grades K - 12.

For additional information, please visit: [www.udel.edu/ceee/index.html](http://www.udel.edu/ceee/index.html)

#### Center For Energy And Environmental Policy (CEEP)

Telephone: (302) 831-8405

<http://ceep.udel.edu>

Faculty Listing: <http://ceep.udel.edu/people>

The Center for Energy and Environmental Policy (CEEP), part of the College of Engineering, conducts interdisciplinary research and supports graduate and undergraduate study on the interlocking issues of energy, environment and development. Work in CEEP is guided by theories of political economy and technology, environment and society. Research programs currently organized in CEEP include sustainable development, environmental justice, global environmental change, energy efficiency and renewable energy applications, water conservation and management, and comparative energy and environmental policy.

With the support of the College of Engineering and the Colleges of Agriculture and Natural Resources, Arts and Sciences, Business and Economics, CEEP administers interdisciplinary graduate and undergraduate programs in Energy and Environmental Policy (ENEP). This unique center offers Bachelor's, Master's and Ph.D. degrees that combine study in the social sciences, engineering, and the natural sciences to address core problems in energy-environment-society relations.

CEEP is composed of an internationally diverse faculty and professional staff, with backgrounds in a variety of disciplines including political science, economics, geography, philosophy, environmental studies, and engineering. In conjunction with its research program, seven Center faculty and two research staff work closely with graduate and undergraduate students, supervising internships, theses and dissertations. Graduate areas of specialization supported at the master's and doctoral levels include: technology, environment and society, energy sustainability, water sustainability, environmental justice, sustainable development, and global dimensions of energy and environmental policy. Students in the Undergraduate program can choose from three areas of concentration: energy, economics and public policy; energy, environment and society; or energy, science and technology.

CEEP faculty and staff have editorial responsibility for an annual book series entitled Energy and Environmental Policy, are contributing authors to the UN-sponsored

Intergovernmental Panel on Climate Change, and serve as advisors to such organizations as the Chinese State Environmental Protection Agency, the Environmental Forum of the National Assembly of South Korea, the India Renewable Energy Development Agency, and the U.S. National Renewable Energy Laboratory. CEEP also provides technical assistance to international, federal, state and local institutions. CEEP has over thirty signed research and exchange agreements with European, Latin American, African, and Asian universities and research institutes.

For more information please see <http://ceep.udel.edu/>.

#### Center for Environmental Genomics

The Center for Environmental Genomics brings together people interested in the application of genomic-related technology to solving basic and applied problems in the environment. Here "genomic" is used broadly to include bioinformatics, proteomics, and other "omic" sciences. The Center facilitates interactions and collaborations between members now using genomic-based technology and others who have active programs in ecology or the environmental sciences. The Center fosters synergies and interactions among faculty and scientists who might not otherwise collaborate.

#### Goals

- Recruit graduate students
- Increase the visibility of an important research area
- Attract university, state, and federal funds for center activities
- Enhance the role of environmental scientists in the decision making process of the University
- Foster international collaborations and student exchange

For additional information, please visit: [www.ceoe.udel.edu/CEG/Center for Fuel Cell Research](http://www.ceoe.udel.edu/CEG/Center for Fuel Cell Research)  
The Fuel Cell Research Laboratory is part of the Mechanical Engineering Department at the University of Delaware. Our research is currently focused on Hydrogen PEM fuel cells and Direct Methanol fuel cells. Research issues in PEM cells include water management, reactant gas transport, evaluation of permeability of gas diffusion materials, and the manufacture and testing of custom fuel cells. For DMFC, we are evaluating the use of metal foams for distributing reactant to the electrodes, and novel methods to mitigate the effect of CO<sub>2</sub> production. We have also embarked on a major project to research, build and demonstrate a

fuel cell powered transit vehicle in the state of Delaware.

For additional information, please visit: [www.me.udel.edu/research\\_groups/prasad/index.html](http://www.me.udel.edu/research_groups/prasad/index.html)

#### **Center For Historic Architecture And Design (CHAD)**

The Center for Historic Architecture and Design (CHAD) addresses issues related to historic preservation through an integrated, interdisciplinary program of research and public service focusing on historic architecture and landscapes; design issues of the built environment and material culture; documentation of historic properties and computer applications to documentation; research on the physical properties of cultural and historic materials; historic preservation planning and policy at national, state, and local levels; and advocacy for historic resources. CHAD supports graduate study in historic preservation at both the master's and doctoral levels through the School of Urban Affairs and Public Policy and in conjunction with other co-sponsoring departments and programs. CHAD is affiliated with the Laboratory for the Analysis of Cultural and Historic Materials.

CHAD also maintains an extensive collection of research and documentary materials for more than 4,000 historic sites and structures in the United States. The collection includes measured drawings, photographs, and narrative histories, as well as resources for buildings research and a study collection of architectural materials. The collection is open for research and reference to students, the preservation community, and the general public.

CHAD is academically affiliated with the School of Urban Affairs and Public Policy, and co-sponsored by the departments of Art Conservation, Art History, Geography, and History as well as the Museum Studies Program and the Winterthur Program in Early American Studies in the College of Arts and Sciences. CHAD is a founding member of the Center for Material Culture Studies which promotes the dynamic collaboration of individuals, programs, and departments engaged in the documentation, interpretation, and preservation of the objects and images that have shaped American life. For more information, please visit <http://www.udel.edu/CHAD/>.

## **Center for Information and Communication Sciences**

The Center for Information and Communications Sciences (CICS) is a research center spanning the College of Engineering and the Department of Computer and Information Sciences at the University of Delaware. The CICS conducts basic and applied research for sponsors in the National Security sector, facilitating research interactions between associated faculty, industry, and federal and state government agencies. The center also provides graduate and undergraduate students with the opportunity to participate in research projects.

For additional information, please visit: [cics.udel.edu/](http://cics.udel.edu/)

## **Center For Innovative Bridge Engineering (CIBrE)**

The Center for Innovative Bridge Engineering was established at the University of Delaware in 2000 to serve as a resource for the world's highway and railroad bridge community through education, research, and technology transfer. The Center helps to educate outstanding bridge engineers for careers in industry, government, and academia; organizes multidisciplinary research teams to address bridge infrastructure renewal; and transfers technology to bridge owners through papers, reports, workshops, seminars, and lab demonstrations. CIBrE research covers a broad range of topics, including design and analysis, advanced materials, health monitoring, advanced sensors, bridge management, hydraulics and scour, geotechnical engineering, and bridge security. For more information, contact Director Dennis Mertz, 302-831-2735 or [mertz@udel.edu](mailto:mertz@udel.edu), or visit the Center's web site at [www.ce.udel.edu/cibre](http://www.ce.udel.edu/cibre). Center For Managed Ecosystems

The mission of the Center for Managed Ecosystems is to improve the ability of urban, suburban, and agricultural landscapes to support the plants, animals, and physical conditions essential to the long-term productivity of the ecosystems on which humans depend. We do this because recent research has shown that human land-use in the U.S. has fragmented and degraded ecosystems in ways that threaten most of our plant and animal species with extinction. If this process is allowed to proceed unchecked, the impact on the productivity and stability of the ecosystems that sustain us will be compromised. Current landscaping paradigms needlessly exclude biodiversity from agricultural and urban/

suburban landscapes. Redesigning human-dominated ecosystems to increase the carrying capacity for biodiversity, and thus increase ecosystem productivity and sustainability, without conflict with humans, is the central goal of the Center for Managed ecosystems. For more information, visit the Center's website at [ag.udel.edu/cme/](http://ag.udel.edu/cme/) or contact the director, Dr. Doug Tallamy at [dtallamy@udel.edu](mailto:dtallamy@udel.edu).

## **Center For Material Culture Studies (CMCS)**

The Center for Material Culture Studies (CMCS) helps to integrate and enhance the University's rich resources for the creation, study, and conservation of material culture. It promotes the learning from and the teaching about all things people make and the ways people have acted upon the physical and visible world. Through the CMCS, students and teachers examine material objects as living artifacts, as texts and contexts, to better imagine, interpret, and appreciate the world we inhabit. To do so, the CMCS administers a popular undergraduate minor in material culture studies, which includes field experience and a funded internship program. Faculty affiliated with the Center represent a broad spectrum of departments and programs across the university, and the CMCS regularly coordinates activities with regional cultural institutions to share resources, to promote collaborative research and teaching, and to foster new opportunities and motivation for public engagement in the humanities. It thus contributes to national and international efforts in the documentation, interpretation, preservation, and teaching of material culture.

For more information, please contact Deborah C. Andrews, Director, CMCS, at [dandrews@udel.edu](mailto:dandrews@udel.edu) or visit the CMCS website at <http://www.materialculture.udel.edu>.

## **Center For Molecular And Engineering Thermodynamics (CMET)**

Thermodynamics is at the very center of chemical engineering practice. The Center for Molecular and Engineering Thermodynamics, CMET, a research unit within the Department of Chemical Engineering with Center faculty and students also in the physics, chemistry and biochemistry departments, serves as a focal point stimulating collaborative experimental and theoretical research and encouraging the development of new educational materials, textbooks, monographs, and regular and short courses, in all areas of thermodynamics, and also maintains state-of-the-art thermodynamics

laboratories.

Research at the Center is conducted by the faculty, their undergraduate and graduate students, postdoctoral fellows, and visiting scientists. Students are deeply involved in the Center research, which is being carried out with the support of industrial and governmental grants and contracts. Current projects involve studies of applied and statistical thermodynamics, quantum and computational chemistry including the use of supercomputers and clusters of parallel computers, the measurement of vapor-liquid equilibrium, environmental thermodynamics, the thermodynamic properties of polymeric materials and proteins, structure and phase behavior of complex fluids, surfactants and colloid science, transport phenomena, and thermodynamic properties of biological compounds. Of special interest are applications to the purification of pharmaceuticals and other biological materials. New initiatives of the Center include developing methods for the characterization and crystallization of proteins, and the use of nanoporous materials for the purification of gases.

The Center's laboratory facilities provide students access to and training in the operation of modern equipment including supercomputers, surface forces apparatus, laser light, x-ray and neutron scattering, various spectroscopic techniques, and a wide variety of equipment for the measurement of phase equilibria and physical properties.

Other activities of the Center include cooperative research projects with scientists and engineers in industry and government laboratories.

Through their involvement in research for their thesis projects, graduate students associated with the Center for Molecular and Engineering Thermodynamics earn either a Master's or Ph.D. degree in chemical engineering, chemistry or physics.

For more information, please see [www.che.udel.edu/cmet](http://www.che.udel.edu/cmet).

### **Center for Neutron Science**

The Center for Neutron Science at the University of Delaware is a cooperative agreement between the (UD) and the National Institute of Standards and Technology (NIST) Center for Neutron Research (NCNR) to explore and develop new areas of neutron scattering science,

with emphasis on strengths in complex fluids, macromolecular science, and condensed matter physics. This partnership will enhance the small angle neutron scattering (SANS) capabilities of the United States, and thereby, make them available to a large scientific user community. It also help train the next generation of neutron scientists and engineers for careers in support of the national nanotechnology initiative. SANS is a powerful probe of molecular and nanoscale structure, supramolecular order and dynamics, and can be used to monitor chemical and field-induced transformations. Because the technique requires a high-flux neutron source, SANS measurements are carried out at large national facilities, of which there are only four in the US. This cooperative agreement builds on the world-recognized expertise in SANS in the Departments of Chemical Engineering and Materials Science and Engineering at the University of Delaware and their long-standing scientific collaborations with the US' premier neutron scattering facility NCNR at NIST.

For additional information, please visit: [www.cns.che.udel.edu/](http://www.cns.che.udel.edu/)

### **Center For Public Horticulture**

The Center for Public Horticulture is based within the College of Agriculture and Natural Resources and links the resources and expertise of UD faculty with public horticultural professionals and public gardens nationwide. Through this partnership, the Center's vision is to develop educational programs for undergraduates, graduate students, and existing professionals in the field, as well as produce and disseminate original, interdisciplinary research that will forge new partnerships, enhance the skills of industry leaders, and set the standard for public horticulture practices of the future.

For more information, visit the Center's website at <http://www.publichorticulture.udel.edu> or contact the director, Dr. Robert Lyons at [rlyons@udel.edu](mailto:rlyons@udel.edu).

### **Center for Remote Sensing**

The Center for Remote Sensing serves as a focal point for basic and applied research on remote sensing of the physical and biological properties of the oceans and the coastal zone. The Center employs about a dozen faculty, staff, graduate students, and visiting scientists.

The Center specializes in interdisciplinary research and training, with emphasis on coastal

processes, marine resources, and ocean-atmosphere coupling. Research vessels, aircraft, and satellites equipped with multispectral, infrared, and microwave sensors are used for gathering data. Advanced computer systems are employed to analyze and enhance the satellite imagery.

In addition to course work, graduate students prepare theses or dissertations on satellite oceanography, global climate change, local impact of sea-level rise, optical physics of coastal waters, wetland productivity and health, pollutant drift and dispersion, coastal environmental indicators, and application of remote sensing and GIS to coastal resource management. This research is supported by federal and state agencies as well as commercial firms and private foundations.

The Center has conducted coastal and ocean studies in various parts of the world and has provided training to more than 300 scientists and students from the U.S. and 23 foreign countries.

The Center was recognized by NASA as a Center for Excellence in the application of remote sensing to regional and global environmental assessment of coastal/marine resources.

For more details, call Dr. X.H. Yan, Co-Director, at (302) 831-3694, or visit <http://www.udel.edu/CRS/>

### **Center for Spintronics and Biodetection**

Center for Spintronics and Biodetection conducts research on the frontiers of the second-generation spintronics involving electron spin transport, pure spin currents, coherent spin dynamics, and spin-dependent noise phenomena in multilayered nanostructures consisting of ferromagnets, metals, insulators, and semiconductors. In addition, spintronic devices are also investigated as elements of sensors for biomolecules (nucleic acids and proteins). CSB research facilities are located at the University of Delaware and Brown University, while its funding comes from the Department of Energy and the State of Delaware.

For additional information, please visit: [wiki.physics.udel.edu/csb/Main\\_Page](http://wiki.physics.udel.edu/csb/Main_Page) Center for the Study of Metals in the Environment

### **Center for the Study of Metals in the Environment (CSME)**

The Center for the Study of Metals in the Environment (CSME) is a multi-institutional consortium of scientists and engineers working to further the understanding of processes affecting the fate and effects of metals in aquatic and terrestrial ecosystems. Significant gaps in the ability to predict the fate and effects of metals in both aquatic and terrestrial systems continue to hamper appropriate risk assessments and cost-effective risk management. In these situations, decisions include many assumptions and the application of safety factors. The focus of the Center is on developing appropriate information so that regulatory decisions will be based on sound scientific principles.

For additional information, please visit: [www.ce.udel.edu/CSME/Index.html](http://www.ce.udel.edu/CSME/Index.html)

### **Center For Teaching and Learning (CTL)**

The Center for Teaching and Learning (CTL) is a University-wide unit that supports the development and implementation of programs, services, scholarship and resources that advance innovative and effective practices in teaching and student learning. Its primary functions are to: Serve as a clearing house on teaching and learning in higher education; provide support and consultation on curricular design and implementation for faculty and departments; innovate, develop, and disseminate research based best practices and scholarship in teaching and learning; support the pedagogical and professional development of graduate students who contribute to the UD teaching mission; support the pedagogical and professional development of faculty; enhance the visibility and recognition of quality teaching resulting in significant student learning; promote faculty reflective dialogues on teaching and learning; liaison with University committees, units, and take forces involved with instructional support and student learning; and offer funding through grant opportunities that further the University's academic signature programs and strategic initiatives. Additionally, CTL supports General Education at UD, through initiatives and programs designed to facilitate, expand and enhance the Discovery Learning Experience, Capstones, and E-Portfolios as teaching and learning opportunities and methodologies.

The Center for Teaching and Learning and the Office of Educational Assessment comprise the University's Center for Educational Effectiveness.

CTL is located in 212 Gore Hall, phone 302-831-2027, Email: [cte-reg@udel.edu](mailto:cte-reg@udel.edu)  
Further information is available at <http://cte.udel.edu>

### **The Center for Translational Cancer Research**

Translational cancer research defines a means of transferring basic discoveries in the laboratory into new clinical interventions for the diagnosis, treatment, prognosis, or prevention of cancer with a direct benefit to the patient. This idea forms the basis of our "Discovery to Recovery" motto. We aim to foster the immediate translation of results from ongoing clinical trials into improved patient treatment planning and health decision making. We also seek to implement a cultural transformation of the cancer research endeavor into one composed of multidisciplinary teams organized around a common purpose.

For additional information, please visit: [www.udel.edu/ctcr/](http://www.udel.edu/ctcr/)

### **Computer Architecture and Parellel Systems Lab**

At the Computer Architecture and Parellel Systems Laboratory (CAPSL), our main research interests include high-performance parallel computing architecture, system software, parallel programming and tools for both traditional supercomputers as well as high-performance embedded systems. We are also specialized in mapping applications to a number of areas including bioinformatics.

For additional information, please visit: [www.capsl.udel.edu/](http://www.capsl.udel.edu/)

### **Cooperative Extension System**

Delaware Cooperative Extension System is part of a nationwide system whose mission is to connect the public with university knowledge, research and resources to address youth, family, community, and agricultural needs. In so doing, Cooperative Extension enables people to improve their lives and communities by developing learning partnerships that put knowledge to work. Cooperative Extension serves as an educational resource to the people of Delaware for extending research results and advances in technology and is administered through the College of Agriculture and Natural Resources.

A major thrust of the Cooperative Extension system is to target programs to address critical

issues that relate to youth, family, community and agricultural needs. The accelerating expansion of technology, the deteriorating situation in portions of the agricultural sector, and the dynamic social conditions faced by many Americans, rural and metropolitan, require Extension to reassess priorities and continuously adapt programs and activities to meet needs.

Undergraduate students have opportunities to apply for Extension's summer intern program and thereby be designated as an Extension Scholar. As an Extension Scholar, students gain practical experience in dealing with and in providing information to the public on a wide variety of areas including agriculture, community/economic development, family and consumer sciences, food and nutrition, 4-H youth development, horticulture and water and soil quality. For more information, please go to <http://ag.udel.edu/extension>.

### **Delaware Asteroseismic Research Center**

The Delaware Asteroseismology Research Center's mission is to promote and facilitate the study of stellar seismology. To accomplish this goal, DARC takes the lead in organizing an international cooperative observing network distributed in longitude around the globe and coordinated from a single site. Our goal is to continuously monitor stars of interest for periods of two weeks to 1 month.

For additional information, please visit: [www.physics.udel.edu/darc/darc.html](http://www.physics.udel.edu/darc/darc.html)

### **Delaware Biotechnology Institute (DBI)**

The Delaware Biotechnology Institute is a multidisciplinary academic unit of the University devoted to the discovery and application of new knowledge in the life sciences. The Institute provides support and leadership for statewide partnerships that involve institutions of higher education, state government, industry and the medical community.

The Institute is engaged in research covering a range of areas important to Delaware including agriculture, marine ecosystems, human health, and biomaterials. The Delaware Biotechnology Institute provides opportunities for both fundamental and applied research, as well as collaboration with business entities to commercialize the results of research.

The Institute provides graduate and undergraduate students with research experience

and access to high quality, professionally-managed research instrumentation. The Institute collaborates in developing new interdisciplinary research experiences and life science education programs at the graduate and undergraduate level. Delaware Biotechnology Institute serves as a bridge linking academia and the public and private sectors to facilitate internships for students.

In the application of new knowledge, the Institute acts as a focal point for science and technology-based economic development, supporting and attracting new life science enterprises thereby creating new high quality jobs.

For more information, please visit our website at [www.dbi.udel.edu](http://www.dbi.udel.edu).

### **Delaware Center For Teacher Education (DCTE)**

The Delaware Center for Teacher Education (DCTE), part of the College of Education and Human Development, strengthens both pre-service and in-service teacher education. It works to improve access to the University's professional education programs and supports the state's efforts to enhance teachers' knowledge and instructional practices in social studies, special education, reading and writing through multiple professional development opportunities. In addition to housing the Education Resource Center (a curriculum materials library) and the Office of Clinical Studies (responsible for coordinating all field placements for all teacher education candidates), the Center houses the following projects and programs:

Alternative Routes to Teacher Certification, a program to bring people with bachelor's degrees in content areas into teaching in fields where the state is experiencing teacher shortages (e.g., mathematics and science);

ASPIRE, a program to recruit and retain teacher education candidates from underrepresented groups (e.g., males in early childhood education, persons from minority groups, first-year college attendees);

Unlocking Doors to Enhanced Language and Literacy, a federally-funded project to enhance Head Start teachers' knowledge and instructional practices in language and early reading;

Delaware Reading and Writing Project, a project to enhance Delaware K-12 teachers' knowledge and instructional practices in the teaching of reading and writing in ways consistent with the common core language arts standards through summer institutes,

partnerships with Delaware schools, clusters, and workshops;

Delaware Social Studies Education Project, a project to enhance Delaware K-12 teachers' knowledge and instructional practices in the teaching of social studies and to support the coordination of the teaching of social studies in Delaware's public schools;

Teaching American History, a federally-funded project in cooperation with Delaware school districts to enhance teachers' knowledge of American history and of instructional practices consistent with the history standards within the Delaware social studies standards.

For additional information about DCTE and these projects, call (302) 831-3000 or visit the Website at [www.udel.edu/dcte](http://www.udel.edu/dcte).

### **Delaware Center For Transportation (DCT)**

The Delaware Center for Transportation (DCT), part of the Department of Civil and Environmental Engineering, is a joint venture between the University of Delaware and the Delaware Department of Transportation (DeIDOT) that provides a university-wide multidisciplinary program of transportation-related research and educational and instructional activities. DCT identifies research opportunities with DeIDOT and others. The mission of DCT is to improve the movement of people, goods and ideas within, to, and through the State of Delaware, the mid-Atlantic region, the nation, and the world through research, development, and education. For more information, please visit <http://www.ce.udel.edu/dct/>.

### **Delaware Education Research & Development Center**

The Delaware Education Research & Development Center, part of the College of Education and Human Development, provides research services and support to assist educators in policy analysis and program evaluation. The Center's primary mission is to inform thinking and action in Delaware education through conduct and dissemination of both local and national educational research. To this end, the Center provides information about the condition of educational systems in the state and research support to further educational reform. For further information, e-mail [ud-rdc@udel.edu](mailto:ud-rdc@udel.edu), call (302) 831-4433 or see [www.rdc.udel.edu](http://www.rdc.udel.edu)

## **Delaware Environmental Institute (DENIN)**

The Delaware Environmental Institute (DENIN) seeks to provide solutions to pressing environmental challenges by supporting knowledge collaborations that integrate environmental science, engineering and policy. DENIN initiates interdisciplinary research projects and supports interdisciplinary academic programs. The Institute conducts research in areas relevant to the challenges facing the state and the nation with a focus on three key areas: processes at the air, land, and sea interface (the Critical Zone); environmental forecasting and restoration; and ecosystem health.

DENIN's culture of scholarship leverages the combined talents of affiliates and fellows through collaborative working groups, joint proposal development, and project resource coordination.

DENIN partners include government agencies, nonprofits, companies, policymakers, and members of the public, all of whom work together to address environmental issues.

For additional information, please visit: [denin.udel.edu/](http://denin.udel.edu/)

## **Delaware Geological Survey**

The Delaware Geological Survey was established by an Act of the General Assembly in 1951 and is organized as an affiliated agency of the College of Earth, Ocean & Environment. This arrangement reflects both the research orientation of the Survey and the need for practical applications of geology throughout the state. The Delaware Geological Survey's mission is, by statute, geologic and hydrologic research and exploration, and dissemination of information through publication and public service. The goal of the Delaware Geological Survey is to provide objective scientific geologic and hydrologic information, advice, and service to our stakeholders. This goal is accomplished by conducting geologic, hydrologic, and geologic hazard investigations and services and by continuing development of our infrastructure through basic data collection and computer-based data management and dissemination programs. The scientific information is used to advise, inform, and educate stakeholders about the important roles that the earth sciences play in such topics as water resources, public health, agriculture, economic development, land-use planning, environmental protection, geologic hazards, energy and mineral resources,

emergency planning, response and recovery, and recreation.

Survey programs are coordinated with a number of state agencies, and the Survey serves, by statute, as the state's cooperator with such federal units as the U.S. Geological Survey, Minerals Management Service, and the Delaware River Master. Liaison and counsel are provided to other appropriate governmental and technical units through various appointments held by the State Geologist and other members of the scientific staff. The Delaware Geological Survey Building was completed in 1989. Because of the physical proximity of and collaboration between the DGS and the Department of Geological Sciences in Penny Hall, students benefit from association with Survey geologists and their research projects. The Survey has formal internship programs in geology and hydrology with Geological Sciences and the Water Resources Center that provide opportunities for students to conduct research and obtain practical experience while working with Survey Scientists. Several survey scientists also hold secondary appointments in Geological Sciences, participate in teaching programs, and serve on graduate student committees.

The research results of the Delaware Geological Survey are published as Bulletins, Reports of Investigations, Geologic and Hydrologic Maps, Atlas and Miscellaneous Map Series, Special Publications, Open File Reports, Digital Data Products, and journal articles. Products and information are also available online via the Survey's website. Well records, sample library, and other data collections are additional resources available to the scientific community and the general public at the Delaware Geological Survey Building. Most Survey publications are available on the web. For further information, contact the Survey at (302) 831-2833, by email at [delgeosurvey@udel.edu](mailto:delgeosurvey@udel.edu), or on the web at [www.dgs.udel.edu](http://www.dgs.udel.edu).

## **Delaware Sea Grant College Program**

In 1966, Congress established the National Sea Grant College Program. The term "Sea Grant" was chosen to emphasize the parallel between this new program, focusing on the nation's marine resources, and the Land Grant program, which was created more than a century earlier to develop our agricultural resources. Today, there are Sea Grant programs in every coastal state and in Puerto Rico. Programs work individually and in partnership regionally and nationally to address major marine challenges.

Since then, DESG's goal has been to promote the wise use, conservation, and management of marine and coastal resources through high-quality research, education, and outreach activities that benefit the public and the environment.

The University of Delaware received its first Sea Grant funding, for oyster research, in 1968. Two years later, marine research and education activities expanded dramatically at the University of Delaware with the founding of the College of Marine Studies — an all-graduate institution. In 1976, in recognition of its academic excellence and a strong foundation of statewide support, the University of Delaware was named the nation's ninth Sea Grant College, and the administration of the new program was assigned to the UD College of Earth, Ocean, and Environment to reflect the broadening of its scope.

Currently, Delaware Sea Grant is conducting research in priority areas ranging from seafood safety to coastal hazards, preparing the next generation of environmental leaders through hands-on research and educational activities, and sharing trustworthy information on coastal topics with people from all walks of life.

The Delaware Sea Grant College Program is funded by the National Sea Grant College Program in the National Oceanic and Atmospheric Administration (NOAA) of the U.S. Department of Commerce; the State of Delaware; and the University of Delaware.

The program is administered with input and guidance from our Sea Grant Advisory Council, whose members hail from marine-oriented business and industry, resource management and engineering firms, state government, public interest groups, the pre-college educational sector, and the media. We are committed to excellence in marine research, education, and public service and look forward to addressing new coastal problems and opportunities for the benefit of Delawareans and the environment!

For additional information, please visit: [www.deseagrant.org/](http://www.deseagrant.org/)

### **Delaware Space Grant Program**

This program is funded by NASA in order to train students and researchers in the state of Delaware in the areas of science, technology, engineering, mathematics, and geography.

By means of this training, the state of Delaware aims to help in contributing to the technically literate workforce which NASA will need in the years ahead.

A primary goal of Delaware Space Grant is to provide academic-year scholarship and fellowship opportunities to undergraduates and graduates who attend colleges in the Consortium. I strongly encourage students at the Consortium colleges and universities to consider applying for these funds at the appropriate time of year.

Funds are also provided for research infrastructure which will assist in the training of students and post-doctoral fellows in a variety of NASA-related fields. The program supports internships in industry and at NASA centers, both during the summer, and also during the academic year. Funding is also provided for a significant number of programs which are aimed at professional development of pre-college teachers.

For additional information, please visit: [www.delspace.org/](http://www.delspace.org/)

### **Delaware Small Business and Technology Development Center (SBTDC)**

The Delaware Small Business and Technology Development Center (SBTDC) is a statewide small business assistance program headquartered at the University of Delaware in the Office of Economic Innovation and Partnerships. The SBTDC is the primary small business assistance agency for the state of Delaware. The mission of the SBTDC is to create value for Delaware by engaging, challenging, and guiding businesses to grow, prosper, and achieve their goals. Additionally, SBTDC offers specialized assistance in helping businesses sell their goods and services to federal, state, and local governments, as well as SBIR/ STTR research grant assistance and other business advisory services for technology- and knowledge-based businesses.

The Small Business Act of 1980 authorized the creation of an SBDC program in every state and territory of the United States, and the SBTDC is part of a national network of over 1,200 centers. In Delaware, there are service centers conveniently located in each of the three counties. The program is a partnership with the University of Delaware, the U.S. Small Business Administration, and the Delaware Economic Development Office. For further information visit

www.delawaresbdc.org or call 302-831-0770.

### **Delaware Water Resources Center (DWRC)**

The Delaware Water Resources Center (DWRC), established in 1965, is part of a network of 54 Water Resources Research Institutes throughout the nation. The U.S. Geological Survey provides oversight of the nation's Water Resources Centers through the National Institute of Water Resources.

The DWRC has three goals: to support research that will provide solutions to Delaware's priority water problems; to promote the training and education of future water scientists, engineers, and policy makers; and to disseminate research results to water managers and the public.

Faculty in agriculture, engineering, marine and earth studies, and the physical and social sciences conduct research on water supply, water quality control and management, and water resources planning. Grants are awarded to faculty on a competitive basis each year to support undergraduate internships and graduate student assistantships. A national competitive grants research program is also available.

For more information, please see <http://ag.udel.edu/dwrc/> or contact the director of the DWRC, Dr. Tom Sims, [jtsims@udel.edu](mailto:jtsims@udel.edu).

### **Disaster Research Center (DRC)**

The Disaster Research Center (DRC) is an interdisciplinary research unit in the UD Research Office. The center was established at Ohio State University in 1963, was moved to the University of Delaware in 1985. The Center was elevated to a College Center in 2006 and then a university-wide Center in 2007. DRC is recognized as the first Research Center in the world devoted to the study of disasters from the perspective of the social sciences. The Center conducts research on group, organizational, and community preparedness for, response to, mitigation of, and recovery from natural and technological disasters and other community-wide crises. Our findings are geared towards creating both academic and practical knowledge development in the field of disasters. Researchers at DRC have conducted over 600 field studies since the Center's inception, traveling to communities throughout the United States and to a number of foreign countries in order to carry out systematic studies on a broad range of disaster types. Among other hazards, we have examined the societal impacts of hurricanes, floods,

earthquakes, tsunamis, tornadoes, hazardous chemical incidents, plane crashes, and civil disturbances.

Although its main focus has been on disasters and other community crises in the United States, DRC personnel have frequently worked closely with members of the international hazards research community. DRC maintains ongoing contact with researchers throughout the United States, Asia, Europe, Mexico, Japan, and Australia, some of whom have been visiting research associates at the Center for periods of up to a year. In recent years, DRC has also organized several multinational research conferences focusing on disaster issues in Central America, Southern Asia, Europe, Japan, Russia and the former Soviet Union.

Graduate and undergraduate training are also integral components of DRC's mission. DRC graduate students work closely with faculty on all facets of funded research projects from grant writing to final reports. Many students have the opportunity to author or co-author publications in scholarly journals on topics related to these research projects and to use DRC data for their masters theses and doctoral dissertations. Our graduates are well respected in the field and have gone on to work in a number of related institutions including: higher education, government agencies, NGOs, and as private sector consultants. DRC undergraduates are also integrated into research projects. With mentoring from graduate researchers, these students are exposed to research techniques such as literature reviews, database creation, qualitative and quantitative analysis, and professional writing. Undergraduates are expected to actively contribute to projects. Further, DRC is also a site for the National Science Foundation's (NSF) Research Experience for Undergraduates (REU) program, "Hazards, Disasters, and Society: Training the Future Generations of Social Science Researchers," providing 10 undergraduate students each summer with hands-on research training to enhance their understanding of the social science aspects of disasters. DRC faculty also support the Emergency and Environmental Management Concentration for Sociology majors.

In addition to maintaining its own databases on disaster topics, DRC serves as a repository for materials produced by other agencies and researchers. DRC's specialized Resource Collection, which contains the world's most complete collection on the social and behavioral aspects of disasters and now numbering more

than 55,000 items, is open to scholars, students, and professionals involved in emergency management research. The Center has its own book, monograph, and report series with over 500 publications.

For more information about DRC projects, publications, staff or history, please visit the website at <http://www.udel.edu/DRC>.

### **Early Learning Center**

The Early Learning Center is a joint project of the Colleges of Education and Human Development, Arts and Sciences and Health Sciences. The Center opened in June 2004 and is a state-of-the-art comprehensive early care and education facility. It offers quality child care and other services for families, including intervention services; technical assistance and training for community family-service providers; a laboratory for faculty and student researchers from several UD colleges; and a hands-on learning site for graduate and undergraduate students from across the campus. For more information, please see [www.udel.edu/elc](http://www.udel.edu/elc), or contact Peg Bradley, Director, at [pbradley@udel.edu](mailto:pbradley@udel.edu). Exelon Trading Center

The primary objective of the Exelon Trading Center is to increase the quality of the academic experience within the Lerner College by allowing our students to experience real time hands-on professional applications of the industry, and empowering our faculty with high-tech teaching tools. This discovery-based learning facility allows the Lerner College to stay abreast of the fast-paced world of financial markets. We offer our students a real world experience that provides them with a unique skill set. Students in Finance, Economics, HRIM, Accounting, MIS, and other classes use the center to put theory into practice. Workshops teach students the basics of working with sophisticated financial software. Professional training courses and executive education classes are also conducted in the center. When the trading center is not used for classes and workshops, it is available for students to complete research and assignments.

The Exelon Trading Center is a 2,200 square foot educational trading facility designed to replicate the trading floors in investment banks, brokerage houses, and hedge funds on Wall Street. We incorporate the same computer hardware, software, networks, and market data feeds that are found in every financial institution throughout the world. The center contains sixteen classroom workstations, four research room workstations, an instructor podium, and

real-time feeds to two tickers and four LCD displays.

For additional information, please visit: [www.lerner.udel.edu/centers/etc](http://www.lerner.udel.edu/centers/etc)

### **Gerard J. Mangone Center For Marine Policy**

For 35 years, the Gerard J. Mangone Center for Marine Policy has conducted a broad range of research and policy studies on the management of ocean and coastal areas at local, regional, national and international levels. Housed in the College of Earth, Ocean and Environment, the Mangone Center was the first Center of its kind created at an American university.

The Center's current research work focuses on six major themes:

- 1) Integrated coastal and ocean management around the world;
- 2) United States national ocean and coastal policy;
- 3) implementation of international ocean agreements;
- 4) marine aquaculture policy;
- 5) marine biotechnology policy; and
- 6) regional marine ecosystem management.

In addition to its active research program, the Center organizes conferences and publications and serves as the editorial home to the international journal, *Ocean & Coastal Management* (12 issues each year); hosts visiting scholars; administers educational exchange programs (between the United States and Europe; among Canada, the United States and Mexico; between the United States and the Caribbean; and between the United States and Brazil); provides research opportunities for graduate students; provides policy focused internships for undergraduate students; and provides policy advice to a wide range of governmental and non-governmental entities, both domestic and international (examples include the World Bank, the Intergovernmental Oceanographic Commission/UNESCO, the UN Environment Programme, the National Oceanic and Atmospheric Administration, Canada's Department of Fisheries and Oceans, the Delaware Department of Natural Resources and Environmental Control).

The Center also hosts the International Coastal and Ocean Organization, the Secretariat for the Global Forum on Oceans, Coasts, and Islands, which brings together leading ocean experts from governments, nongovernmental organizations, international entities, and the

private sector, in multi-stakeholder global dialogues, policy analysis, and public outreach, aimed at advancing the interests of oceans (incorporating 72% of the Earth), coasts (the home of 50% of the world's population), and islands (44 of the world's nations are small island developing states which are especially dependent on the oceans).

For more information, please contact Dr. Biliانا Cicin-Sain, Director, at (302) 831-8086 or visit <http://www.ceoe.udel.edu/CMP/Halophyte>

### **Biotechnology Center**

The Mission of this Center is to improve salt-tolerant crops for use in salt-afflicted agroecosystems using biotechnology. Develop varieties of plants for saline wetlands restoration that will drive high productivity ecosystems without continual human input. Disseminate knowledge about using salt-tolerant plant varieties to develop sustainable agriculture in areas of the world where soils are salinized or only saline water is available for irrigation and to solve wetland restoration problems. Exchange information on the performance of varieties of salt-tolerant plants under various types of agroecosystems (ie. rainfed, irrigated, tidal) and wetland restoration sites.

For additional information, please visit: [www.ceoe.udel.edu/Halophyte/](http://www.ceoe.udel.edu/Halophyte/)

### **History Media Center**

The History Media Center is a multimedia resource facility servicing the University of Delaware Department of History. Since 1970, the Center has provided history faculty, graduate students and history education students with the use of, and instruction in, electronic media for teaching and research through the creative application of technology. The Center's resources encompass a number of teaching collections including slides, maps, transparencies, videos, DVDs, music CDs, audio cassettes, and educational software. Technical equipment is available to produce multimedia lectures including computers, laptops, data projectors, scanners, video and audio players, digital cameras and recorders, and 35mm cameras.

The Center houses a collection of over 190,000 slides, covering images in American, European, and World history, of which more than 12,000 circulate each year. An easy-to-use database lets patrons search for slides using key words, time period, or geographic location. The World history

slide collection is available in digital format and the Center's staff is currently digitizing slides from the European history slide collection. History Media Center staff assist users with the selection of video programs from over 700 videotapes and DVDs including academic films, documentaries, international films, special purpose videos, and feature films.

The Center's staff also provide other services for the History department including graphic design and desktop publishing; photography and digital imagery; slide scanning; development of multimedia slide shows; assistance with equipment and media scheduling and maintenance; assistance with Sakai and webpage design, coordination of book orders with faculty and the University Bookstore, and general computer and software technical assistance.

For more information, please see [www.udel.edu/History/hmc](http://www.udel.edu/History/hmc).

### **Institute for Global Studies**

The Institute for Global Studies (IGS) is the principal administrative unit dedicated to the internationalization of the University of Delaware community. IGS promotes and supports faculty and staff participation in international teaching, research, service, grant development, and other professional activities. The Institute promotes and supports student involvement in international issues by developing and managing university study abroad programs, sponsoring speakers and lectures on international issues and themes, and working with academic units to further international education on campus. The Institute also provides academic units with direct support in the development of institutional agreements to help develop global linkages and collaborative activities.

Some of the Institute's ongoing activities include:

- 65 study abroad programs to over 40 countries annually;

- Undergraduate and graduate exchange programs with numerous institutions overseas;

- The International Travel Award program (supporting faculty travel to international conferences);

- The International Research Award program (supporting faculty research of an international nature);

- The IGS Faculty Fellows Program;

- Managing ongoing grants from multiple funding agencies;

Conducting ongoing research regarding the status and scope of international activities at the University of Delaware; and

Working with academic departments and colleges to increase the number of curricular offerings with international content and to expand study abroad opportunities.

As a service to the State of Delaware and the local community, the Institute also works closely with local public and civic organizations, as well as the private sector, to help nurture a community of citizens that is aware of, and responsive to, the opportunities and challenges of today's interdependent world.

For more information, please contact IGS at Elliott Hall, 26 East Main Street, (302) 831-2852, or visit the IGS website at [www.udel.edu/international](http://www.udel.edu/international). Institute For Public Administration (IPA)

Established in 1973, The Institute for Public Administration (IPA) is a public service, education, and research center that links the resource capacities of the University of Delaware with the complex public policy and management needs of governments and related nonprofit and private organizations. IPA provides direct staff assistance, research, policy analysis, training, and forums while contributing to the scholarly body of knowledge. Program areas include civic education, comprehensive planning, conflict resolution, education management, health policy, leadership development, state and local management, transportation policy, and water resources. IPA supports and enhances the educational experiences of students through the effective integration of applied research, professional development opportunities, and internships.

More than 25 graduate research assistants work for IPA on a wide range of significant research and public service projects. IPA also provides research opportunities to undergraduate students interested in public policy through its Public Service Fellows Program. In addition, IPA manages the Internship Program for the School of Urban Affairs & Public Policy. Under this program, graduate students have completed internships in government, nonprofit, and private agencies. IPA also manages the Legislative Fellows Program, which is co-sponsored by the Delaware General Assembly and the University of Delaware. This program offers competitively selected graduate students and senior-level undergraduate students the opportunity to work

directly with legislators in addressing critical issues facing the state. In recent years, Fellows have conducted nonpartisan, in-depth research on complex public policy issues as diverse as land-use planning, electric utility deregulation, credit fraud and identity theft, and education reform.

IPA's main office is on the University's Newark campus in 180 Graham Hall. Dr. Jerome Lewis is the director of IPA. For further information on IPA or its programs, call (302) 831-8971 or visit the website at [www.ipa.udel.edu](http://www.ipa.udel.edu).

### **Institute For Transforming Undergraduate Education (ITUE)**

The Institute for Transforming Undergraduate Education (ITUE) is committed to continuous improvement of undergraduate education through faculty development and course design. ITUE actively promotes the development of critical thinking, problem-solving, communication, and teamwork skills in our students. To meet these goals, ITUE advocates effective use of instructional technology combined with active learning strategies, including problem-based learning. Undergraduate students at UD benefit directly from the reform activities of ITUE, an internationally recognized leader in bringing problem-based learning to the undergraduate curriculum.

ITUE Faculty Fellowships are awarded annually. During an intensive three-day session or distributed semester-long series, Faculty Fellows receive hands-on experience in employing active learning and web-based approaches. In addition, Fellows receive small grants to help facilitate their course transformations. Additional follow-up sessions are scheduled throughout the academic year.

For further information, please contact George Watson (302) 831-0740; e-mail: [ud-itue@udel.edu](mailto:ud-itue@udel.edu) or visit [www.udel.edu/inst](http://www.udel.edu/inst).

### **Institute Of Energy Conversion (IEC)**

The Institute of Energy Conversion (IEC), established at the University of Delaware in 1972, is a laboratory devoted to research and development of thin-film photovoltaic solar cells and other photonic devices. IEC was designated a University Center of Excellence for Photovoltaic Research and Education by the Department of Energy and the National Renewable Energy Laboratory in 1992. Fundamental materials

and device research is carried out in parallel with process engineering studies and analysis of film deposition processes. The broad scope of the research and development effort offers opportunity for study in the field of physics, chemistry, materials science, chemical engineering, mechanical engineering, and electrical engineering as well as collaboration with industrial groups seeking to manufacture and commercialize photovoltaics. IEC is a totally integrated laboratory in which materials and films are synthesized and characterized and electrical devices are fabricated and analyzed, offering the unique experience of correlating properties of completed devices with their fabrication processing all under one roof. Close collaboration between IEC staff and thin film photovoltaic industrial partners insures that the research is relevant to today's technology and includes state-of-the-art process development.

The Institute is staffed by approximately 20 professional and support personnel as well as faculty, visiting scholars, post-doctoral fellows, graduate and undergraduate students. Professional staff members jointly supervise graduate students for Masters and Doctorate degrees in conjunction with the departments of Chemical Engineering, Electrical and Computer Engineering, Materials Science and Engineering, Mechanical Engineering, and Physics. The professional staff members also lecture in undergraduate and graduate level courses, supervise undergraduate student research projects, and are active in related professional organizations. In addition to these resources, students conducting research at IEC have the opportunity for internships at other laboratories such as the National Renewable Energy Laboratory in Denver, CO and at industrial facilities.

For more information, please see [www.udel.edu/iec](http://www.udel.edu/iec)

### **.Institute Of Soil And Environmental Quality (ISEQ)**

The Institute of Soil and Environmental Quality (ISEQ), established in 2002, is a center of excellence for research, education, and outreach programs that provide science-based solutions to the many environmental problems involving our soil resources. The ISEQ has a three-fold mission:

To conduct basic and applied research on soil and environmental quality issues. Integral to this research is a rigorous, comprehensive graduate

and undergraduate education program dedicated to training new soil and environmental scientists. Our research faculty emphasize interdisciplinary research between soil scientists and colleagues in agronomy, chemistry, engineering, marine and earth studies, hydrology, resource economics and environmental policy. As part of this, the ISEQ supports graduate assistantships and an undergraduate internship program in soil and environmental science.

To serve as an unbiased scientific advisory body for state, regional, and national advisory and regulatory agencies, policy-makers, and governmental leaders on issues related to soil and environmental quality. All scientists affiliated with the ISEQ serve on a Scientific Advisory Panel that responds to technical questions from the public and private sector on soil and environmental science issues.

To conduct public education and outreach programs designed to further public understanding of soil and environmental quality issues and thus foster effective citizen involvement in environmental policy-making. The ISEQ provides training programs and educational aids related to soil and environmental sciences for K-12 teachers. We also conduct and support environmental education activities, such as summer environmental camps and workshops, for youth, parents, and teachers.

For more information, please see <http://ag.udel.edu/iseq/> or contact the ISEQ director, Dr. Tom Sims, [jtsims@udel.edu](mailto:jtsims@udel.edu). Interdisciplinary Humanities Research Center

The mission of the College of Arts and Sciences' Interdisciplinary Humanities Research Center (IHRC) is to: 1) strengthen humanities research, enhance its visibility both regionally and nationally, and provide support for initiatives involving multi-disciplinary research teams and inter- and intra-institutional partnerships; 2) support creative, intellectually ambitious course development and curriculum innovations designed to bring cutting-edge research into the classroom and engage more undergraduates in humanities research; and 3) significantly enhance the University's public humanities programming, thereby contributing to the University's overarching goal of making the Newark campus a destination: an intellectually and culturally rich and exciting environment for students, faculty, and the community.

The IHRC currently supports three internal grant programs: a grant program to support multi-disciplinary research teams; a grant program

to support distinguished visiting artists and scholars; and a grant program to support cross-disciplinary collaborations and curriculum innovations through the establishment of “Integrated Semester” experiences for either graduate students or undergraduates, involving co-enrollment in at least two courses offered by different departments and the coordination of special events programming—e.g., on-campus speakers or film viewings, off-campus field trips or tours of exhibits, service-learning or community-based research—for all of the students enrolled in these courses. For more information, contact Dr. Ann Ardis: [ataardis@art-sci.udel.edu](mailto:ataardis@art-sci.udel.edu)

### **John L. Weinberg Center For Corporate Governance**

The John L. Weinberg Center for Corporate Governance at the University of Delaware’s mission is to foster education, thoughtful debate, and innovation in the field of corporate governance. Its programs provide forums for corporate board members, the legal community, the judiciary, academia and students, in which theories are created, ideas are advanced, and progressive changes come to life. Since its founding in 2000, the Weinberg Center for Corporate Governance has helped influence the debate on some of the most important policy matters in corporate governance. Weinberg Center programs include academic symposiums, director education colleges, conferences, distinguished speaker series, research and comment letters and a blog and podcast series. The Weinberg Center is one of the longest standing corporate governance centers in academia, and its mission remains as relevant as ever in light of the constantly shifting dynamics in the US and global marketplace.

For more information, contact the Center at (302) 831-6157 or e-mail [ccg@lerner.udel.edu](mailto:ccg@lerner.udel.edu).

### **Mathematics and Science Education Resource Center (MSERC)**

The Mathematics and Science Education Resource Center (MSERC), part of the College of Education and Human Development, helps Delaware’s K-12 mathematics and science teachers implement content and performance standards in their classrooms. MSERC serves as an information center for mathematics and science education activities, both within the University and throughout the state, and plans and offers a multi-faceted professional development program for K-12 mathematics and

science educators.

Through MSERC, Delaware teachers have access to the latest curricular materials, the newest educational software and technology, and research-based assessment techniques and tools, as well as expertise in all these areas on a year-round basis. MSERC’s professional development programs are scheduled so that teachers can easily attend and are sequenced so that teachers can begin at a point appropriate to their experience and their pupils’ needs.

MSERC collaborates with local school districts, the Delaware Department of Education, the Delaware Mathematics and Science Coalitions and other agencies and groups dedicated to enhancing mathematics and science education in Delaware.

For more information, please visit: [www.udel.edu/mserc](http://www.udel.edu/mserc).

### **OCEANIC-The Ocean Information Center**

The Ocean Information Center (OCEANIC) at the University of Delaware’s College of Earth, Ocean, and Environment serves as a centralized location for the UNOLS information technology infrastructure, web server, mail servers, file repository and backend relational databases. We support UNOLS office activities to modernize their IT infrastructure and secure their data. We also continuously operate both public and secure web pages and applications in support of UNOLS activities. The location of these services at UD allows the UNOLS office to rotate to various institutions without the logistical and technological hurdles involved in moving the IT services and relational databases.

For additional information, please visit our website.

### **Office Of Educational Assessment (OEA)**

The Office of Educational Assessment supports academic departments and units assessing undergraduate and graduate student learning. The OEA staff provide services that encourage program enhancements through the implementation of systematic assessment of student learning.

To accomplish our mission our primary functions are to:

Provide support, training, and consultation on assessment design and implementation for faculty and departments

Support faculty and departments in the integration and assessment of University-wide General Education initiatives

Document educational effectiveness through the collection of assessment data

Offer grants opportunities that further the University's academic signature programs and strategic initiatives

Serve as a clearing house on learning assessment in higher education

Innovate, develop, and disseminate research based best practices and assessment scholarship

Enhance the visibility and recognition for quality assessment resulting in significant student learning

For more information, visit <http://assessment.udel.edu>.

### **Office Of Educational Technology (OET)**

The Office of Educational Technology (OET) supports instructional and desktop computing across the College of Education and Human Development, provides technological leadership to academic programs throughout College of Education and Human Development and the teacher education programs in the College of Education and Human Development and across campus, and offers contract- and grant-supported services for technology integration to partners in College of Education and Human Development initiatives, such as K-12 schools, non-profit groups and government agencies. OET sponsors the annual New Arc Academy for 4th to 8th grade students with a focus on math, science and technology.

For more information, visit the web site at [www.udel.edu/oet](http://www.udel.edu/oet).

### **University of Delaware Botanic Gardens**

UD Botanic Gardens contributes to an understanding of the changing relationships between plants and people through education, extension, research, and community support.

For additional information, please visit: [ag.udel.edu/udbg/index.htm](http://ag.udel.edu/udbg/index.htm)

### **University of Delaware Energy Institute (UDEI)**

The University of Delaware Energy Institute (UDEI) was established to marshal the University's extensive resources in science, engineering, business and public policy to address the full spectrum of challenges posed by our urgent energy needs. The primary mission

of UDEI is to facilitate and advance collaborative research among faculty, staff and students in the various departments, centers and institutes across campus that are involved in energy-related research.

As the focal point for the University of Delaware's pursuit of environmentally sound and technologically advanced energy solutions, UDEI promotes research in the enabling science and encourages the development and deployment of new and emerging energy technologies. By leveraging the University's strengths in research, education and policy in energy and by partnering with industry and government, UDEI, with other units, provides students with interdisciplinary education and research experiences in the energy field along with insight into the economic, engineering, and political realities of commercializing and implementing new technologies into the marketplace. UDEI also serves as a resource for energy-related technological advancements and advice to decision makers in the public and private sectors.

For more information, please visit [www.energy.udel.edu](http://www.energy.udel.edu).

### **University Of Delaware Press**

The University of Delaware Press publishes books in many scholarly fields and disciplines. These books reach a world-wide intellectual and academic community. Presently its major strengths are in literary studies, art history and history, including the life and culture of Delaware and the Eastern Shore. The Press offers assistantships to qualified graduate students and internships to qualified undergraduates. These students work with the chair of the editorial board and the managing editor to learn the day-to-day operations of a scholarly press. Students typically work 5-10 hours a week, as the budget allows, and may represent the press at annual conventions and meetings of scholars and academics.

Interested students should contact the chair, Dr. Donald C. Mell, University of Delaware Press, 200A Morris Library, 181 South College Avenue, telephone (302) 831-1149 or visit the web site at <http://www2.lib.udel.edu/udpress/>.

### **Water Resources Agency**

The mission of the Water Resources Agency (WRA) is to provide water resources planning and policy assistance to governments in

Delaware, the Delaware Valley, and along the Eastern Seaboard through the University's land grant public service, education, and research role. Its goal is to be recognized as the best university water-resources planning and policy organization east of the Mississippi River.

For additional information, please visit: [www.ipa.udel.edu/wra/](http://www.ipa.udel.edu/wra/)

### **Flexible Programs Promote Lifelong Learning Delawareans: Start Your Degree Program Close to Home**

The University of Delaware, in partnership with Delaware Technical & Community College, offers to all qualified applicants who are residents of the State of Delaware the opportunity to pursue a two-year liberal arts program leading to the Associate in Arts (A.A.) Degree. The Associate in Arts Program builds on the strengths of the former Parallel Program, which it replaces. The Associate in Arts Program is offered at UD academic centers on Delaware Tech campuses in Wilmington, Dover and Georgetown.

The Associate in Arts program is designed to enable students to complete sixty credits for the Associate in Arts degree in two years, and then to move to the UD main campus in Newark to complete a bachelor's degree. All of the sixty credits required for the Associate in Arts will apply toward a B.A. degree at the University of Delaware. The University - Delaware Tech Partnership

The Associate in Arts Program is offered as the result of a unique partnership between the University and Delaware Technical and Community College. Delaware Technical and Community College provides classrooms and other facilities to enable the University to bring its teaching resources to locations throughout the state. The Associate in Arts degree is a UD degree, and the courses for the Associate in Arts degree are UD courses which appear on a UD transcript, though the physical location of the classrooms is at Delaware Technical and Community College. UD faculty provide the course instruction, and UD staff provide academic support, including on-site academic advisement, tutoring, skills enhancement, and other services. The goal is to bring the best of both institutions to serve the educational needs of Delaware residents.

Associate in Arts students receive UD identification cards and UD computer accounts,

enabling them to use UD academic, cultural, and recreational privileges. For example, Associate in Arts students can use the Morris Library or the Bob Carpenter Sports Center in Newark; they can join UD's registered student organizations; and they qualify for student rates at UD theatre, music, or art events. At the same time, Associate in Arts students carry Delaware Tech identification cards, entitling them to use Delaware Technical and Community College facilities and participate in Delaware Tech events.

### **Benefits Of The Associate In Arts Program**

The Associate in Arts Program has been designed to prepare students for the completion of a rigorous academic program, by building academic strengths and skills in a supportive small-campus environment. Program participants will receive academic advisement and assistance from faculty advisors and professional advisors at their campus. Academic advisors at the Associate in Arts locations will assist the transition of Associate in Arts students to the Newark campus for completion of a bachelor's degree.

The distinctive features of the Associate in Arts Program are:

- Small class sizes
- Close faculty contact
- Enhanced academic support
- Curriculum structured to support decisions about appropriate majors
- Focus on the traditional liberal arts (history, English, geography, and other related areas) - the broad education most in demand by employers
- Freshman Seminar in the first semester
- Tuition substantially lower than UD Newark campus tuition
- Eligibility for free tuition through Delaware SEED Scholarships

The Associate in Arts Program is designed for students we believe would benefit from additional support, including small classes, individualized attention, and a structured curriculum before relocating to the Newark campus. As a non-residential program, tuition is reduced and students may also qualify for the State of Delaware SEED Scholarship program. The lower tuition and the eligibility for a SEED scholarship apply only to students who enroll in the Associate in Arts Program. Therefore, if you take advantage of the lower tuition or a SEED scholarship, please realize that you must be willing to spend two full years in the program and to complete an Associate Degree before

you will be permitted to enroll on the Newark campus. Admission To The Associate In Arts Program

Prospective students apply for admission to the Associate in Arts Program through the UD Office of Admissions as part of the regular application procedure. Applications may be found online at [www.udel.edu/apply](http://www.udel.edu/apply). Students who apply after January 15 will be considered on a "space available" basis. Applicants must demonstrate scholastic aptitude, motivation for academic achievement, and adequate preparation for degree completion. All Delawareans who demonstrate the capacity to succeed will be admitted to the Program.

Financial aid, including SEED scholarships, will be available through the standard admissions process. SEED scholarships, which cover the full cost of Associate in Arts tuition, are made available through the State of Delaware to students who meet eligibility requirements established by the State; see [www.udel.edu/associateinarts/SEED/](http://www.udel.edu/associateinarts/SEED/). Students applying for UD financial aid, including SEED scholarships, must complete a Free Application for Federal Student Aid (FAFSA), available online at [www.fafsa.ed.gov/](http://www.fafsa.ed.gov/).

Applicants must be graduates of accredited secondary schools or have equivalent credentials, and must have completed coursework at the high school level appropriate for continued academic achievement and learning; a complete list of expected high school courses is listed on the Freshman Application for Undergraduate Admission. All applicants must submit SAT and/or ACT scores.

All Delawareans who apply to the University of Delaware, but who are not admissible to the Newark campus, will automatically be considered for, and may be offered admission to, the Associate in Arts Program. Transfer students who have earned more than 29 credits in the liberal arts are not eligible for admission to the Associate in Arts Program. The Associate In Arts Curriculum

The Associate in Arts curriculum is designed to provide students broad skills important for future success, including critical thinking, reading, reasoning and analysis, mathematics, and elementary foreign language skills. The curriculum enables students to explore the various traditional disciplines of the liberal arts, leading to an eventual choice of a major from within these disciplines. The Associate in

Arts courses serve three purposes at once: the courses fulfill the requirements for the Associate in Arts degree; the courses fulfill the majority of the core requirements for the B.A. degree; and the courses serve as the entry-level courses for the most popular B.A. majors. All students in the Associate in Arts program are classified as "University Studies" students, meaning that they do not have a declared major during the time that they are in the Associate in Arts Program. A formal major is declared upon relocation to the Newark campus at the beginning of the junior year.

The Associate in Arts degree requires the successful completion of 60 credit hours of approved academic work with a minimum grade point index of 2.0. Courses leading to the Associate in Arts degree are offered at the UD academic centers on Delaware Technical and Community College campuses in Wilmington, Dover, and Georgetown and admitted students may enroll in approved courses at any of these sites. Students may pursue the degree part-time or full-time. The Associate in Arts program is non-residential - campus housing is not provided and most students elect to live with their families. Continuing Toward The B.A. In Newark

Students who complete the required courses for the Associate in Arts with a minimum GPA of 2.0 are guaranteed admission into more than 90 of the 120+ majors on the Newark campus. A formal transfer of credit application is not required for Associate in Arts recipients - they are already UD students, and need merely to submit an internal change of major form.

Students should note that some majors in Newark have competitive entry requirements, with selection through an internal application process that applies to all students, including those who complete the Associate in Arts.

Students admitted to the Associate in Arts Program are required to complete the entire two-year, sixty-credit sequence before moving to Newark to complete a bachelor's degree. Students are expected to work closely with their advisor each semester in order to complete the program in a timely manner and to prepare for their intended bachelor's degree program. Direct Start Option - For Students Ready To Enroll Directly In A Four-Year Program

Some Delaware-resident students may know what major they want, and be academically prepared to enter a four-year program directly from high school, but may wish, for personal,

financial, or other reasons, to start their studies close to home instead of in Newark. Such students should apply directly to their major of choice and should indicate Dover, Georgetown, or Wilmington as their location of choice on the admission application. If accepted into the chosen major, students will have the opportunity to work with an academic advisor to determine the feasibility of taking early coursework with the Associate in Arts Program in Dover, Georgetown, or Wilmington. The advisor will help the "direct-start" student map course selections and develop a timetable for moving to the Newark campus. Courses for a particular major may not be available at all locations.

Students who enroll in four-year programs, whether on the Newark campus or at one of the University's Academic Centers, must pay the full Newark campus tuition and are not eligible for reduced Associate in Arts rates. Four-year Degrees In Southern Delaware

Selected four-year degree programs may be completed in Southern Delaware. This includes majors in Criminal Justice; Hotel, Restaurant, and Institutional Management through UD Online; and Agricultural and Natural Resources. Students must meet the admission requirements for these particular majors and space may be limited in some programs. An academic advisor can assist admitted students to determine how this option might work for them.

### **Connected Degrees - Another Option**

Depending on the student's choice of major, a Connected Degree might be a better choice than the Associate in Arts Program. Connected Degrees with Delaware Tech are currently available in Biology; Biotechnology; Chemistry; Criminal Justice; Early Childhood Education; Electrical Engineering; Engineering Technology; Fitness Management; Food and Agribusiness Management; Human Services; Mathematical Sciences (B.A. and B.S.); Secondary Mathematics Education; Medical Technology; and Nursing. The Connected Degree program is growing, with new agreements in several other areas currently in negotiation. A complete and up-to-date list is available at [www.dtcc.edu/connecteddegree](http://www.dtcc.edu/connecteddegree).

A Connected Degree is a formal, program-to-program transfer agreement between Delaware Tech and the University. In a Connected Degree, the student earns an Associate Degree in Technology from Delaware Tech, and then applies to transfer to UD with junior status, to complete a bachelor's degree in the related UD

major. Students who complete the Delaware Tech degree with the minimal criteria as stated for each major are guaranteed admission to the matching major at UD, and the credits earned at Delaware Tech are applied toward the completion of the bachelor's degree at UD.

The main difference between starting in a Connected Degree as opposed to the Associate in Arts Program is which institution awards the two-year degree: in a Connected Degree, the first half of the degree is awarded by Delaware Tech, while the Associate in Arts is awarded by UD. However, the programs are similar in their location: in both a Connected Degree and in the Associate in Arts Program, the student would begin studies at a Delaware Tech campus.

Students who wish to pursue a Connected Degree should apply for initial (freshman) admission to Delaware Tech, and should work closely with a Delaware Tech advisor to complete the process for continuing toward completion at UD. Not all majors are available at all Delaware Tech campuses; see the list at

[www.dtcc.edu/connecteddegree](http://www.dtcc.edu/connecteddegree) for location information.

For more information, please call 302-831-0628 or see [www.udel.edu/associateinarts](http://www.udel.edu/associateinarts).

### **Flexible Programs Abound in Professional and Continuing Studies**

The Division of Professional and Continuing Studies extends the University of Delaware's academic resources to citizens throughout the state and beyond through credit courses, certificate programs, nondegree short courses, distance learning, institutes, and conferences. Programs are offered in the fall and spring semesters as well as during the winter and summer sessions. Programs are taught or conducted by University faculty members and by outstanding professionals in their particular subject areas.

The Division offers the following professional development programs:

- Advanced Project Management Certificate
- Business Analyst Certificate
- Clinical Trials Management Certificate
- Financial Planning Certificate
- Health Care Risk Management and Patient Safety Certificate
- Lean Six Sigma Green Belt Certificate
- Legal Nurse Consultant Certificate
- Paralegal Certificate

Project Management Certificate  
RN Refresher  
Strategic Human Capital Management  
Certificate

In addition, the Division of Professional and Continuing Studies provides customized, on-site training to area businesses, government agencies, and professional associations to help meet their educational and professional development needs. The Adult Center for Continuing Education Student Services (ACCESS) provides career counseling, educational planning, academic advisement and administrative assistance to current and potential Continuing Education students. (See the "Resources for Students" chapter.)

For more information, call 302-831-7600 or see [www.pcs.udel.edu](http://www.pcs.udel.edu). Part-Time Study to Fit Your Lifestyle

Part-time Undergraduate Courses and Degrees to Fit Your Lifestyle

Undergraduate students are part-time if they register for fewer than 12 credits in the fall or spring semesters. Part-time students are either matriculated (accepted into a degree program) or non-matriculated Continuing Education (CEND). CEND students may register for credit courses to provide personal enrichment, to keep current in their professions or to earn credits towards another goal. All courses are available to CEND students subject to availability and restrictions.

Matriculated undergraduate students can earn degrees through part-time evening study in Wilmington or Newark in Criminal Justice, Engineering Technology or History. In Southern Delaware, part-time matriculated undergraduates can earn degrees in Criminal Justice and Agriculture and Natural Resources. Online degrees include an Associate in Arts, a Bachelor of Science in Hotel, Restaurant and Institutional Management and a Baccalaureate for Registered Nurses with an option of RN to MSN. Students must apply for admission to these degrees through the Office of Admissions and it is possible to begin taking courses without formal admission as a CEND student.

For more information contact the Division of Professional and Continuing Studies ACCESS Center, 302-831-2741 or visit [www.pcs.udel.edu](http://www.pcs.udel.edu)/credit.

## **Distance Learning Brings the Campus to You**

UD Online/distance learning provides non-traditional students with greater access to credit courses and degree programs at the University of Delaware. UD Online offers students the freedom to pursue their degree even if their schedule or geographic location prevents them from attending class on campus.

Courses are delivered online with proctored exams at designated sites throughout the United States, internationally, and at the Division of Professional and Continuing Studies Resource Center. The UD Online "virtual classroom" features many creative learning technologies such as videostreamed class lectures, interactive web activities, blogs, online research projects, threaded discussions, and chatrooms.

The following degree programs are available via state-of-the-art distance learning technology:

- Associate in Arts, (AA)
- Bachelor of Science, Nursing (BSN) for students with associate degrees or nursing diplomas
- Bachelor of Science, Hotel, Restaurant and Institutional Management
- Master of Science in Nursing (RN to MSN)
- Master of Science in Nursing, Health Services Administration major
- Master of Science in Nursing, Clinical Nurse Specialist
- Master of Engineering, Mechanical
- Master of Science in Electrical Engineering

In addition, UD Online courses can help meet degree requirements in other majors, or can be transferred to other college degree programs.

For complete program information and up-to-date course listings, students are encouraged to call 302-831-2741 or visit [www.pcs.udel.edu/udonline](http://www.pcs.udel.edu/udonline)

## **Learning Should Last a Lifetime**

The Osher Lifelong Learning Institute at the University of Delaware, a program of the Division of Professional and Continuing Studies, provides more than 200 college-level, noncredit courses each semester, as well as seminars, travel, cultural and social events, and other learning and enrichment activities for individuals 50 and over. Activities are planned and taught by members. UD has Osher lifelong learning programs in Wilmington, Dover and Lewes. For more information, please see: [www.lifelonglearning.udel.edu](http://www.lifelonglearning.udel.edu).

## Competitive High School Students Can Start Early

After obtaining approval from both their high school counselor and an ACCESS counselor, high school students may enroll in University classes during fall, spring or summer session. Concurrent enrollment allows students to supplement high school work with more advanced material, pursue interests, or build on special talents. Credits become part of the student's permanent record at the University and may be applied toward a university degree. For more information about this program or to schedule an appointment with a counselor, call the ACCESS Center at 302-831-2741.

For general information about this option, contact ACCESS, see [www.pcs.udel.edu/access](http://www.pcs.udel.edu/access).

**The Dual Enrollment Program.** The Division of Professional and Continuing Studies, in partnership with several UD colleges and departments, makes introductory-level courses available to qualified secondary school students through the Dual Enrollment Program. Selected courses are available at participating Delaware secondary schools and through UD Online. Students can concurrently earn University and high school credits for completing these courses successfully. Academic and student services are available to those enrolled in the program. For more information, call 302-831-3148.

**The FAME/UNITE/MERIT/UD program** is a pre-college initiative to increase the effective participation of underrepresented groups and others in the applied sciences and engineering professions. The College of Engineering, with support from FAME Inc. and other organizations, offers a four-week academic enrichment program in the summer for talented high school students with demonstrated potential for success in the applied sciences and mathematics areas. The curriculum includes, but is not limited to, course work in mathematics, science, English, and engineering design.

For further information, call (302) 831-6315 or see <http://www.engr.udel.edu/rise/fame/index.html>.

**The Governor's School for Excellence** is a one-week summer residential program that brings together academically and artistically talented Delaware high school students who have completed their sophomore year. Students live in residence halls on the Newark campus and attend either the academic program -- consisting of discussions, lectures, debates, and films

revolving around a specific theme -- or the visual and performing arts program, which provides tutorial instruction with a noted artist and culminates in a performance or display of work.

Information is available through Delaware's secondary schools or by calling the Division of Professional and Continuing Studies at 302-831-7600 or visiting [www.udel.edu/govschool/](http://www.udel.edu/govschool/).

**UD Summer College** encourages motivated high school students who have completed their sophomore or junior year to expand their educational experience through college-level study at the University. During the five-week program, students live in university housing, take freshman-level courses taught by University faculty, and participate in a variety of social and cultural extracurricular activities, including out-of-town trips. Students select two or three classes from a curriculum of traditional and innovative courses. On successful completion of the courses, they earn regular University credit, which many colleges and universities accept as transfer credit. Apply by May 1 if financial aid is requested, or otherwise by May 15.

For more information, call the Summer College Office at (302) 831-6560 or see <http://www.udel.edu/summer-college>.

**The Classic Upward Bound Program** at the University of Delaware, housed within the Academic Enrichment Center, is a year-round program designed to serve 54 eligible high school students who reside in New Castle County, Delaware. This program provides students with a variety of academic enrichment and academic support services. Through participation in the University of Delaware Upward Bound Program, students learn the necessary academic skills needed to enroll in a college or university. Upward Bound is a comprehensive program divided into two phases - academic year and summer residential. Funded by the U.S. Department of Education, this program is free of cost to eligible applicants.

For more information, please contact the Academic Enrichment Center, 148-150 South College Ave., Newark, DE 19716, (302) 831-6373, or visit [http://www.aec.udel.edu/upward\\_bound.html](http://www.aec.udel.edu/upward_bound.html).

**The Upward Bound Math/Science Program** at the University of Delaware, housed within the Academic Enrichment Center, is designed to serve 54 eligible high school students who are U.S. citizens or permanent residents. Students

## Fees and Financial Aid

who have completed the 9th grade from Delaware and Maryland are invited to participate in this residential summer program, and continue with monthly workshops during the academic year. Participants live on the University of Delaware campus for six weeks, studying various topics in science, mathematics, English and Latin. This program is designed for students who are from low-income or first-generation college backgrounds, and it is free of cost to eligible applicants, thanks to funding from the U.S. Department of Education.

For more information, call (302) 831-6373. Located at 148-150 South College Ave., Newark, DE 19716, or visit [http://www.aec.udel.edu/upward\\_bound\\_ms.html](http://www.aec.udel.edu/upward_bound_ms.html).

## Fees and Financial Aid

### What UD Fee Policies Apply To Me?

Student tuition and fees, established by the Board of Trustees, apply equally to all students. These fees represent approximately 34 percent of the University's general revenues. Additional revenue sources include state appropriations, donations, endowment income and federal appropriations.

Each student is responsible for understanding and complying with University policies and for paying established fees, which are updated regularly in catalogs, fee-payment materials, and on the University's Web Site. Application for admission, as well as subsequent registration, constitutes acceptance of these terms. The University reserves the right to revise its policies, fees and other charges. Any revisions to policies or rates apply to all students. In most cases, the University provides advance notice of such changes. What Is The Cost Of Attending UD?

The University of Delaware offers an affordable choice to students seeking a private-quality education at a public price. For example, the academic year beginning fall 2010, a fulltime student who chooses to live in a standard multiple room on campus with a seven day meal package, will pay \$10,141 per semester/\$20,282 per year (Delaware resident) or \$17,741 per semester/\$35,482 per year (non-resident). Winter and Summer Session fees are additional. Please see details below which is based on 2010 tuition, room, and meal fees, which are subject to change for the Fall 2011 and Spring 2012 academic year. (Fees and expenses for the Professional and Continuing Studies programs are published separately.)

## TUITION (Per Semester)\*

Charges are the same for courses taken for credit or as an auditor (listener)

Credits	DE Resident	Non-resident	Graduate
1	\$377.00	\$1,010.00	\$1,347.00
2	754.00	2,020.00	2,694.00
3	1,131.00	3,030.00	4,041.00
4	1,508.00	4,040.00	5,388.00
5	1,885.00	5,050.00	6,735.00
6	2,262.00	6,060.00	8,082.00
7	2,639.00	7,070.00	9,429.00
8	3,016.00	8,080.00	10,776.00
9	3,393.00	9,090.00	12,120.00
10	3,770.00	10,100.00	12,120.00
11	4,147.00	11,110.00	12,120.00
12-17	\$4,520.00	\$12,120.00	12,120.00

Please visit the Graduate site at [www.udel.edu/gradoffice](http://www.udel.edu/gradoffice) and review the Policies and Procedures for Funding Policy information.

### Tuition for Additional Credit Hours

There is an additional charge as shown below for undergraduate registration in excess of 17 credit hours.

Credit Hours	De Resident	Non-Resident
18	\$377.00	\$1,010.00
19	754.00	2,020.00
20	1,131.00	3,030.00
21	1,508.00	4,040.00

MBA/BEMS Pathway Students\* - Tuition rates for graduate students classified as Masters of Business Administration, MBA Pathways or one of the Masters of Science Business & Economic programs.

### Tuition Rates MBA/BEMS Pathway

Per Credit Hour

\$1,347.00

Full-Time (9 or more Credit hours) no cap

Graduate Student Sustaining Fee - Master's Sustaining Fee is \$514.00. Doctoral Sustaining Fee is \$778.00. (Read more about Sustaining Status in the chapter on Academic Regulations for Graduate Students.)

Full-time tuition covers registration for 12 to 17 credits per semester for undergraduates, and 9 or more credits per semester for graduate students. All full-time undergraduate students pay the full-time tuition charge, and fees which include but are not limited to the Comprehensive

## ON-CAMPUS HOUSING

Student Fee, the Student Center Fee, and the Student Health Services Fee (see "What Other Fees Should I know About" for details). In addition to semester bills, students should be prepared to pay about \$800 per year for books

### WINTER SESSION TUITION (2010) AND SUMMER SESSION (2010)

#### TUITION RATES - Per Session

##### Credit Hours

	Resident	Non-resident	Graduate
1	\$377	\$1010.00	\$1,347.00
2	754.00	2,020.00	2,694.00
3	1,131.00	3,030.00	4,041.00
4	1,508.00	4,040.00	\$4,545.00
5-7	1,695.00	4,545.00	4,545.00

#### Tuition for MBA, MBA Pathways and BEMS Students

#### Tuition Rates MBA, MBA Pathways and BEMS Per Credit Hour

\$1,347.00

No maximum applies to Graduate Level Courses

\*Fees approved for the 2011-2012 academic year. Subject to change for the 2011-2012 academic year. Who Is Considered A Delaware Resident?

To qualify as a Delaware resident for tuition purposes, the student, or parent/legal guardian of a dependent student must have been domiciled in Delaware for at least twelve consecutive full months as of the first day of class in the semester or session in which such classification is sought.

A determination of status for tuition purposes is made when a student is accepted to the University or when he or she first enrolls as a Continuing Education student. Questions concerning residence status, especially in complicated situations such as military service, custody or guardianships, should be directed to the Admissions Office (undergraduates) or Graduate Studies Office (graduate students) at the time of application. Students seeking a change in classification after enrolling at the University must complete an Application for Change in Classification for the Purpose of Fee Assessment form.

For more complete information regarding this policy or to obtain an application, contact the Registrar's Office at (302) 831-1554, visit the University Visitors Center or see [www.udel.edu/registrar/residency.html](http://www.udel.edu/registrar/residency.html). What Does It Cost To Live On Campus?

## Housing Rates

Proposed rates for the new academic year will be released in late spring and can be viewed online at Housing Assignment Services.

## Freshman Housing

All incoming freshman students pay the same rate for on-campus housing regardless of the location or type of room as long as they are assigned to a designated freshman residence hall.

## Upperclass Housing

All students assigned to upperclass residence halls will be charged the published rate for the assigned hall type and room type.

## Winter Session Rate

Students residing in on-campus residence halls will be billed a \$500 housing fee for Winter Session regardless of the type of room or area of campus.

What Should I Know About Living On Campus?

## ON-CAMPUS HOUSING

Newly admitted students automatically receive residence hall application information. Returning students apply online for on-campus housing beginning February through mid-March. Students may obtain information at [www.udel.edu/has](http://www.udel.edu/has).

All incoming freshman and freshman transfer students who have completed less than 2 semesters of college work are required to live in University housing or at home with a parent or legal guardian. Requests for exceptions to this policy along with an explanation of the student's situation must be submitted in writing to Housing Assignment Services. Returning and other transfer students may live in the University residence halls, their own homes, fraternity/sorority houses, or in the local community in facilities of their own choosing. Listings of some current off-campus housing options are available at: [www.udel.edu/has/offcampus/main.htm](http://www.udel.edu/has/offcampus/main.htm).

The purchase of a meal plan is mandatory for undergraduate students living in all residence halls except the Christiana Towers apartments and designated apartments in traditional residence halls. Visit the Dining Services Web site for details at [www.udel.edu/dining](http://www.udel.edu/dining).

Freshmen, freshman transfer, and returning students who have completed less than 2 semesters of college work and who meet published deadlines for housing application are guaranteed on-campus housing. Students whose housing applications are received after published deadlines are not guaranteed housing but will be accommodated as space permits. On-campus housing is available for single transfer students, although demand is sometimes greater than the number of spaces available.

Assignments for all students are made according to the student's housing information form whenever possible. However, there is no guarantee of specific space or room type. Students will need to pay the full published cost for the assigned room or apartment, whether or not the student receives the type of housing requested. Visit Housing Assignment Services online for more information on residence hall facilities.

To apply for on-campus housing and dining, students submit a housing and dining application and housing information form on-line. A \$200 housing deposit may be paid with a credit card or electronic check. Returning students may also deduct their deposit from their FLEX account. Prospective students will receive detailed instructions in their admittance packets. The deposit is credited toward the academic-year residence hall charges. New freshmen and transfer students who cancel their housing applications for the fall semester in writing on or before May 31 will receive a partial deposit refund of \$100.

Returning students who cancel their housing applications for the Fall semester on or before April 15 will receive a partial deposit refund of \$100. Returning students who cancel after April 15 but before June 1 will forfeit the entire deposit.

The deadline for cancellation for the Winter Session and/or Spring semester is December 20 for all students.

After the Binding Date (June 1 for fall semester; December 20 for Winter Session and/or Spring semester), there is no refund of the deposit and additionally students are obligated to pay for the entire cost of the space assigned to them for the remainder of the academic year (see Housing Agreement).

## **UNDERGRADUATE STUDENT HOUSING AGREEMENT**

The submitted Student Housing Agreement is binding for a specific academic period, generally until the end of the Spring semester. For example, if you submit the Agreement in the middle of fall, it is binding until the end of the following spring semester. You will be charged for the assigned space from the effective date of your Housing Agreement through the end of the academic year specified on your application, unless Housing Assignment Services releases the student from the Agreement. Students who submit an application and Agreement after the beginning of any semester will pay a prorated portion of the semester charge determined by the date of occupancy. On the date the Student Housing Agreement becomes binding (June 1 for fall semester and December 20 for Winter Session and/or spring semester), the student is obligated to pay the full housing charge even if the space is not occupied. The binding date for students who move into university housing mid-term is the date of application. For details see <http://www.udel.edu/has/housingagreement.html>.

## **GRADUATE STUDENT AND FAMILY HOUSING**

University-owned graduate student and family housing apartments and rooms are offered on a first-come, first-served basis based upon the date of application for housing. On-campus housing is not guaranteed. Visit the campus Housing Tour online for a description of university housing facilities. Those who choose to live off-campus may access the off-campus housing listing for listings of some current housing options provided to Housing Assignment Services: [www.udel.edu/has/offcampus/main.htm](http://www.udel.edu/has/offcampus/main.htm).

Information and applications for on-campus graduate student housing may be obtained online at [www.udel.edu/has/graduate](http://www.udel.edu/has/graduate). A \$200 security deposit in United States funds is required with the application. Students are required to sign a Graduate Student and Family Housing Agreement, which obligates the student from the date of signature through July 31 of the following year. The deposit will be held until the end of the leasing agreement and will be refunded to the student minus any damages to the unit.

For additional information, please write or call Housing Assignment Services, 5 Courtney Street, Newark, Delaware 19716, (302) 831-3676; e-mail [grad-family-housing@udel.edu](mailto:grad-family-housing@udel.edu).

## **STUDENT GUIDE TO UNIVERSITY POLICIES AND CANCELLATION POLICY**

When you submit an application for university housing, you agree to comply with the terms of the Housing Agreement, all rules described in the Student Guide to University Policies ([www.udel.edu/stuguide/current](http://www.udel.edu/stuguide/current)), and any other policies pertaining specifically to your assigned space. Housing Assignment Services reserves the right to reassign you to another space (1) if you violate any provision, policy, rule or regulation; (2) to protect the health and safety of others; and/or (3) to make sure that University resources are used prudently. Typically, you will receive at least 24 hours' notice of reassignments.

Cancellation of the Housing Agreement is permitted only under specific or exceptional circumstances and must be approved by Housing Assignment Services. If you wish to be released from an Agreement, you should submit a written request to Housing Assignment Services. Rebates of charges or penalties are detailed in the Student Housing Agreement or the Graduate and Family Student Housing Agreement.

### **ELIGIBILITY FOR UNIVERSITY HOUSING**

Students may reside in university housing only if they are properly registered and in good academic, financial, and disciplinary standing with the University. Academic eligibility requirements for residence in university housing are as follows:

Single full-time undergraduate students must be registered for at least 12 hours of academic credit in the fall or spring semesters.

Graduate students must be registered for at least 9 semester hours of academic credit or be on sustaining status.

Students who drop below the eligibility requirements may petition Housing Assignment Services for permission to continue to live in university housing for the remainder of the term of the Housing Agreement. Students who drop below full-time status are not automatically released from the Academic Year Student Housing Agreement. The rules, regulations, charges, and services for University housing, including other material incorporated by link or reference, is subject to change as deemed necessary by the University without prior notice.

### **What About Meals**

Four "all-you-care-to-eat" dining halls offering a wide variety of menu choices are available across campus: Russell on East Campus, Rodney on West Campus, Kent on Central Campus, and Pencader on Laird Campus. Dining Services also provides numerous snack and meal locations, including campus food courts, snack bars, convenience markets, and concessions carts. A registered dietitian is on-hand for free personal consultations regarding special dietary needs.

### **DINING PLANS FOR STUDENTS IN RESIDENCE HALLS**

A variety of Full-Size dining plan options is available for undergraduate students living on campus. All students living in residence halls are required to purchase a dining plan for each semester/session.

The purchase of a dining plan for winter session and summer session is required for students living in a residence hall during these sessions.

Full-Size plans are comprised of two types of dining plan selections. Weekly plans include a specific number of Meals to be used each week of the semester in any of the four dining halls, plus a specific number of Points per semester and 5 Guest Passes per semester. Block plans include a specific balance of Meals to use during the entire semester, plus a specific number of Points per semester and 5 Guest Passes per semester.

Using Points, students can buy food at campus food courts, snack bars, convenience markets, and concessions carts. Additional Points may be purchased at Value Transfer Stations at five convenient locations on campus (see [www.udel.edu/ud1flex](http://www.udel.edu/ud1flex)); at either University Box Office location; or at least \$25 at the Cashiers Office or the outside drop slot at the Student Services Building. Unused Points from summer session, fall semester and/or winter session may be carried over to the next semester/session. At the end of the spring semester all unused Points are forfeited, have no refundable value, and may not be redeemed.

Dining plans are billed on a per semester/session basis. For residence-hall students with a Housing Agreement, the effective dates of the housing and dining agreements are the same.

## **DINING PLANS FOR STUDENTS LIVING IN THE CHRISTIANA TOWERS APARTMENTS, GRADUATE STUDENT AND FAMILY HOUSING OR OFF-CAMPUS**

Selection of a dining plan is optional, but for those students in this category who like the convenience of cashless purchases for dining services, the following options are available:

**Option 1: Anytime Plans.** Anytime plans provide a specific balance of Meals to use during the semester plus a specific balance of Points.

**Option 2: All Point Plans.** A student may select a specific balance of Points.

The deadline for changes or cancellations corresponds with the drop/add deadline for classes each semester. Unused Points from summer session, fall semester, and/or winter session may be carried over to the next semester/session. All unused Points are forfeited at the end of the spring semester and have no refundable value.

You may also consider opening a Worry Free Student Banking account with PNC to widen the purchasing power of your i-card on and off campus. FLEX is accepted nearly anywhere on campus that cash is accepted, over 200 locations: All dining locations; the University Bookstore; University computer labs; the Library; and laundry machines. Unused FLEX balances carry over from semester to semester and are fully refundable upon closing the account. For more information on FLEX, call 302 831-4033. For more information on banking options with PNC, stop by the PNC branch at the Trabant University Center. You may also email us at [ud1flex-office@udel.edu](mailto:ud1flex-office@udel.edu).

### **Selecting and Changing Dining Plans**

The Dining Choose or Change form available on the Web allows students to select a dining plan. The dining plan may be changed (subject to applicable deadlines) by using the online Choose or Change application available at [www.udel.edu/dining](http://www.udel.edu/dining). If the student makes no selection, he or she will automatically be assigned and billed for the default plan providing 10 Weekly Meals plus \$175 Points per semester.

The student may change or make adjustments to his or her dining plan selection prior to initialization (date determined and publicized each semester) and is provided one final opportunity to change his or her dining plan

between initialization and the drop/add deadline. The final deadline to change a dining plan selection is the drop/add deadline for classes each semester or session. NOTE: The fall dining plan selection will automatically be reassigned for spring unless the student makes a formal request to change using the Change form online.

### **Canceling Dining Plans**

Requests to cancel a Dining Services Agreement for the current semester or session are granted only in limited situations and must be made in writing in accordance with the Cancellation Policy at [www.udel.edu/dining](http://www.udel.edu/dining).

If the request to cancel the Dining Services Agreement is granted by the University, the student's University account will be credited based on a proration of unused dining plan Meals for the remaining days in the term of the Agreement minus two weeks (14 days), plus the value of any unused Points. Any credit balance in the student's University account may be transferred to a FLEX account. For sessions or programs other than the fall or spring semesters, applicable refunds will be calculated in proportion to the semester refund schedule.

### **Accessing Dining Facilities**

A student's University ID card or cash must be presented for a Dining Services transaction. The University ID card is not transferable and may only be used by the person to whom it is issued.

### **Lost University ID Cards**

The University accepts no responsibility for lost or stolen University ID cards. It is the student's responsibility to report a lost card as soon as possible by dialing UD1-CARD (831-2273) to prevent unauthorized use. Replacement cards are issued by the ID office in the Student Services Building.

How Much Will Meals Cost?  
**DINING FEES 2011-2012\***

Plan	Meals/ week	Meals/ semester	Points/ semester	Guest Passes/ semester	Price/ semester
<b>FULL-SIZE PLANS</b>					
19 Weekly	19	-	\$75	5	\$1931
15 Weekly	15	-	\$150	5	\$1931
10 Weekly	10	-	\$275	5	\$1905
250 Block	-	250	\$125	5	\$1931
175 Block	-	175	\$200	5	\$1905
125 Block	-	125	\$350	5	\$1905
<b>OPTIONAL PLANS</b>					
50 Anytime	-	50	\$140	-	\$609
25 Anytime	-	25	\$65	-	\$318
750 All Points	-	-	\$750	-	\$750
450 All Points	-	-	\$450	-	\$450

\*Fee approved for the 2011-2012 academic year. Subject to change for the 2011-2012 academic year.

What Other Fees Should I Know About?

**DETERMINING DATE FOR TUITION CHARGES**

Tuition charges are based on registrations made before the end of the late-registration, free drop/add period (the first two weeks of the regular semesters or the first four days of Winter/Summer sessions). Full charges are made for course addition and/or withdrawal thereafter.

**REBATES FOR TUITION CHARGES**

Full rebates of tuition charges will be offered for courses dropped by the end of the late-registration, free drop/add period. NO REBATES OF TUITION will be made for courses dropped thereafter.

**FEE FOR CHANGES IN REGISTRATION**

Students can make registration changes without fee, and with a full rebate of tuition, prior to the start of classes and during the late-registration period. After the first two weeks of classes, however, a \$25 change of registration fee will

be assessed once per semester when a student initiates a request to change from one class or course section to another, drops or adds a course, changes to or from the pass/fail option, or changes to or from auditor status. In addition to this fee, all students will be charged tuition for any course dropped after the free drop/add period.

**SUMMER/WINTER SESSION REGISTRATION FEE**

All students who register for summer or winter sessions are assessed a \$25 registration fee per session. In addition, there is a \$15 general fee charged for each summer session.

**PART-TIME STUDENTS**

In addition to tuition, a \$25 registration fee is charged to part-time students each semester. (All students are assessed this fee during summer and winter sessions.)

**COMPREHENSIVE STUDENT FEE**

A mandatory \$225\* fee is assessed to all full-time undergraduate students each semester.

**STUDENT CENTER FEE**

A mandatory fee is charged to full-time students to cover amortization of bonds used in the construction of the Trabant University Center and renovations to the Perkins Student Center, as well as operating costs of these student centers. The fee is \$116\* per semester, during fall and spring semesters.

**NEW STUDENT ORIENTATION FEE**

Newly matriculated undergraduate students (including transfers) are required to pay a \$90\* fee for the New Student Program and New Student Orientation, regardless of their participation in these activities.

**SPECIAL RECORDING FEE**

The University charges a fee for the following processing and recording transaction:

-Transferring credit earned at other institutions following admission (\$75 per school, per form, per semester)\*

**STUDENT HEALTH SERVICE FEE**

Each semester, a mandatory \$243\* fee is

assessed to all full-time matriculated students, entitling them to use the Student Health & Counseling Centers during that period. Part-time matriculated students are eligible to use the Health & Counseling Centers' services by including the fee with their semester payment, or they may use the Health & Counseling Centers on a fee-for-service basis. A separate winter session health fee (\$64\*) is automatically assessed all full-time students enrolled in winter session course work. Full-time students not enrolled in winter session may use the SHS on a fee-for-service basis or by paying the winter session health fee. During the summer session(s) all full-time and part-time students are eligible to use the service on a fee-for-service basis or by paying an optional \$87\* summer session charge, which allows use of the SHS during the summer period.

### **STUDENT MEDICAL INSURANCE**

An optional accident-and-sickness insurance plan, administered by University Health Services, Inc., is available to all admitted students. This insurance does not cover medical services offered in the Student Health Service. International students and students whose parents live outside the continental United States are required to enroll in the insurance plan offered through the University, or provide proof of equivalent coverage. Information detailing the medical coverage is mailed to students. It is also available in the Student Health Center.

### **CREDIT BY EXAMINATION FEE**

Credit may be awarded when a student demonstrates proficiency in a subject matter field by passing an examination arranged with the department. A \$75\* per credit hour fee is charged in advance to cover administration and recording costs.

### **VIDEO-BASED COURSES FEE**

Students enrolled in video-based academic courses should contact the UD ONLINE office (302) 831-8843 for fee information.

### **INDEPENDENT STUDY FEE**

Students enrolled in a regular academic program who earn credit by working on an independent research or reading project must pay the appropriate tuition charge.

### **SCUBA FEE**

Students enrolled in HESC 132 will pay a \$70\* fee per semester in addition to the regular tuition charge to cover equipment costs.

### **STUDENT TEACHING FEE**

Students enrolled for Student Teaching (EDDV 400 or HDFS 459) will pay \$75\* per semester in addition to the regular tuition charge.

### **CLINICAL COURSE FEE**

Students enrolled in NURS 453, 457, 459, 473, 477 and/or 479 will pay \$125 per course in addition to the regular tuition charge.

### **TRANSCRIPT FEE**

Prepayment of \$7\* is required for each official transcript. Transcripts cannot be released until all outstanding financial obligations are met. Upon receipt of the completed form, which must be completed by the student, official transcripts are normally mailed within 48 hours.

### **GENERAL FEE FOR CHANGES AND REPLACEMENTS**

A nominal charge, not exceeding \$20\*, is assessed for such transactions as changes in residence-hall rooms (after the first two weeks of each semester) and replacement of lost identification cards (at any time).

### **GRADUATION FEE**

Candidates for an advanced degree are expected to file a completed Application for Advanced Degree with the Office of Graduate and Professional Education and to pay a graduation fee by the stated deadline for summer, fall, or spring degree conferral. The graduation fee is \$50 for master's candidates and \$95 for doctoral candidates.

\*Fee are what was approved for the 2010-2011 academic year. Subject to change for the 2011-2012 academic year.

### **How Do I Pay My Bill?**

All University fees and expenses are due by the published deadlines for each semester or session. In general, tuition, room and meals are due about one month before the start of each semester. A University tuition-and-fees invoice

is generated to enrolled students three weeks in advance of the start of each semester. The invoice is based on the student's registration at the time of billing. If changes in registration are expected, it is the student's responsibility to make any necessary adjustments to the bill and submit the adjusted amount due by the due date.

The University of Delaware uses an electronic billing process to bill all students for charges incurred. The ebill is accessible at [www.udel.edu/paybill](http://www.udel.edu/paybill). Students receive a monthly email notification reminder sent to their preferred email address when the bill is available. Each time an ebill is generated, students will get an email directing them to the secure billing site, Campus Finances, where the current bill, historical bills and the most recent account activity will be available. Students will securely login using their UDEL username and password. Students who wish to have a parent or other authorized person receive bill notifications must request this access through UDSIS- Grant Parent Ebill Access. Assignment of a "billing" email type through UDSIS allows the person to set-up their own password to access Campus Finances where they can view account activity and make payments.

Credit cards are not accepted for payment. You have the option of paying online via your checking account (ACH) when you access your ebill or mailing your payment per the remittance form. You may also visit [http://www.udel.edu/bill\\_coll/pay\\_bill.html](http://www.udel.edu/bill_coll/pay_bill.html) for instructions on wiring payment to the University. If payments are made by check or money order, they should be payable to the "University of Delaware". Receipts are issued for payments by check or money order only when specifically requested.

A dishonored check or ACH payment that has been returned by the bank and not been cleared by the payment deadline, does not constitute payment. The University charges a \$25\* service charge for dishonored checks. Moreover, students who submit dishonored checks may be required to make future payments by cash, money order or certified check.

### **INSTALLMENT PLAN OPTION**

For a \$50\* service fee, students whose credit remains in good standing with the University may pay semester bills in accordance with the installment plan table. The University issues a monthly statement to each student. But, installment payments are due by the dates specified, whether or not the student

receives a statement. The dates listed below are approximate.

Fall 2010 Semester	Spring 2011 Semester
August 1...25%	January 4...25%
September 1...25%	February 4...25%
October 1...25%	March 4...25%
November 1...25%	April 4...25%

Students are billed individually for any loss, breakage, or damage of University property and for such incidental charges as library and parking fines. These bills are due upon receipt. Financial Clearance

You will not be officially registered for a semester until you are financially cleared. You will be financially cleared once one of the following steps is completed by the due date.

- Make a full payment to clear the balance by the first semester due date, or
- Make the first payment and all subsequent installments on-time according to the scheduled due dates, or

If there are additional credits or funding (such as Graduate Contracts, Tuition Benefits, Financial Aid, Third Party Payments) that will cover your balance, you can 'Report Additional Credits' from your Campus Finances account. This process certifies why payment has not been submitted or was reduced and protects the semester registration (i.e. if the semester balance is zero due to financial aid, graduate contract, or other credits which cover the total semester charges).

If you do not take action on the bill by either payment or confirmation of payments from other sources to financially clear your account, you may risk being dropped from your classes. Financial Responsibility/Tuition Refund Eligibility

Please remember that the act of registering generates related tuition charges for which you are financially responsible. If for some reason you register and subsequently decide not to take classes, you must officially drop or withdraw from courses before the free Drop/Add period ends for the given semester. Full-time and part-time students who withdraw in writing from the University by the end of the semester's free Drop/Add period are eligible for a full refund of tuition and fees. No refunds of tuition or course fees will be made for withdrawal or dropped courses after the free Drop/Add period expires. What Happens If I Am Not Financially Cleared?

-IF THE UNIVERSITY DOES NOT RECEIVE THE REQUIRED PAYMENT BY THE SPECIFIC DATE EACH SEMESTER, REGISTRATION MAY BE CANCELLED. STUDENTS NOT MAKING PAYMENT MUST BE FINANCIALLY CLEARED BY CERTIFYING THAT FINANCIAL AID OR OTHER SOURCES WILL BE CLEARING THEIR BALANCE DUE.

-If any fees, fines or miscellaneous payments are not received by due dates, the student may be dropped from the University. Subsequent registration will be refused and transcripts, diplomas and other information concerning attendance at the University will be withheld. Reinstatement requires payment of the amount due and compliance with the usual readmission procedures.

-Students are responsible for collection agency fees, attorney fees, court costs and other costs and charges necessary for the collection of any amount not paid by the due date.

-Students who fail to make payments by the due date may be denied the privilege of using the installment payment plan in future semesters.

#### LATE-PAYMENT FEE

Any student who is not financially cleared by the date specified on each monthly invoice may be charged a \$55\* late-payment fee each billing cycle. New students who are admitted too late to pay by the established fee-payment date, as identified by the Admissions Office, will not be charged a late-payment fee if they make payment at the time of registration.

A student who chooses the installment payment plan and either does not pay the second, third and final installments when due or fails to pay the required percentage of his or her bill, will be assessed a \$25\* installment penalty for each such installment.

Do Senior Citizens Qualify for Tuition Discounts?

#### SENIOR CITIZENS

Every matriculated student who is a Delaware resident, 60 years of age or older, may take credit courses on a space-available basis without paying tuition. They must pay all applicable fees except the Admission Application, Readmission Application, Advance Standing, Student Teaching, and New Student Orientation Fee. For further information, contact the Admissions Office at (302)831-8123. Can Veterans And Their

Dependents Obtain Assistance To Attend UD?

The University of Delaware is approved for veteran attendance under Chapters 30, 31, 33, 35 and 1606 and 1607 of Title 38, Code of Federal Regulations including the post 9/11 Veteran's Educational Assistance Act. Veterans interested in obtaining benefits under these regulations should contact the University Veterans Affairs Clerk in the University Visitors Center or call (302) 831-1554. Are There Discounts For Delaware Teachers?

Delaware public school teachers for the 2010 Summer Session, may be eligible for a reduction in tuition expenses. If you qualify as defined below, please review our special Summer Sessions site for confirmation of any applicable tuition adjustments at <http://www.udel.edu/summer/financl-0.htm>.

The term "Delaware public school teachers" refers to those under legal contract to serve the public elementary and secondary schools of the state as teachers (regular, provisional, temporary or substitute), instructional aides, guidance counselors, librarians, or nurses, and administrative personnel who regularly supervise the above, but excluding other employees in staff administrative positions. Delaware public school teachers who have so served at least half-time (90 days) during the previous academic year, or who have legally obligated themselves as full-time during the succeeding academic year, are eligible for this exemption. Details regarding methods of establishing entitlement are contained in the Summer Session bulletin.

Those in doubt about their classification as Delaware public school teachers should obtain clarification from the Billing Services Office, (302) 831-2126, before registering. How Do I Apply For Financial Aid?

Graduate students should also read the chapter "Graduate Fellowships and Assistantships" in this catalog.

At the University of Delaware, scholarship and financial assistance programs focus on the student. Whenever possible, the University strives to remove financial barriers to higher education, and to attract students with exceptional academic promise. The University works in partnership with families to make a University of Delaware education possible.

Financial assistance programs represent a bridge

between the family's ability to pay and the cost of higher education. The University distributes its financial support in the form of scholarships based on academic excellence and need-based packages consisting of grants, loans, and employment opportunities. While the Office of Undergraduate Admissions focuses on merit awards for incoming freshmen, the Office of Student Financial Services works with families in the allocation of need-based support. How To Apply For Financial Aid

#### Entering Students - newly admitted

- Financial aid applications can be submitted as early as January 1. We encourage parents and students to submit their Free Application for Student Aid, FAFSA, immediately after they submit their taxes for the year but no later than mid-April. The Student Financial Services Office holds all personal and family financial information in the strictest confidence. Admissions decisions are not influenced in any way by a student's eligibility for financial aid. To apply for financial aid, a student and his or her parents should take the following steps:

- Complete a Free Application for Federal Student Aid (FAFSA) preferably on-line at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). (If necessary, forms may be obtained from high-school guidance counselors and a mailing address is provided.) Please indicate the UD School Code on the FAFSA to have a copy of the analysis sent to the University of Delaware (institution code #001431). The federal government does require that an audit of FAFSA data be completed for some applicants. This process is referred to as Verification Review and if selected may require you to submit Federal Income Tax Forms for both the parents and students to the University's Student Financial Services Office. A statement of Selective Service Registration Compliance also may be required.

- Applying on the Web at [www.fafsa.ed.gov](http://www.fafsa.ed.gov) expedites the process and makes updates to the information, if necessary quick and easy. This site provides on-screen instructions to fill out the application and extensive online help is also available.

#### Renewal and Other Candidates - returning students

- All students must reapply for financial assistance each year. Awards may be offered depending on available resources, the need of the applicant and the student's continued enrollment in a degree program (with at least halftime status). Continuing Education students are not eligible for federal financial assistance.

All upperclass applicants must follow the same application procedures outlined above for entering freshmen. Students should submit a FAFSA at [www.fafsa.ed.gov](http://www.fafsa.ed.gov) each year.

#### Deadline

- The priority deadline for financial assistance applications is mid-April, prior to the year for which aid is requested. Some financial aid is offered on a first-come; first serve basis. The best way to ensure that, based on your eligibility, all available funds can be offered is to apply early.

#### Notification of Aid

- Newly admitted student's financial aid package or notification of awards, describing the sources and amounts of aid awarded, is made available on the personalized Be A Blue Hen account. This information is available prior to the Admissions deadline and deposit due dates.

- Returning student's financial aid package or notification of awards, describing the sources and amounts of aid awarded, will be sent via email in early July to the student. This is done before University charges are due around the first billing date. After the student receives notification, he or she can Accept or Decline the awards online from their UDSIS account. Failure to complete this step will result in the aid not disbursing to the account. Please, also review requirements for completing Entrance Counseling and signing Master Promissory notes for federal loans. These are also required for financial aid disbursement to student accounts.

#### Financial Aid Recipient Withdrawals

- Students who are recipients of Title IV federal financial aid funds and whose enrollment terminates through official withdrawal must have their financial aid award reviewed for adjustment. Title IV federal financial aid funds are as follows: Federal College Work Study, Federal Perkins Loan, Federal Supplemental Educational Opportunity Grant, Academic Competitiveness Grant, SMART Grant, Federal Pell Grant, William D. Ford Federal Direct Loan Program, and the Federal Direct PLUS Loan Program. The Nursing Loan Program is also a federal financial aid program.

Financial aid eligibility is based on the cost of education (tuition, mandatory fees, housing, meal plan, books, etc.) incurred for the entire semester and is contingent upon completion of that semester. Upon withdrawal, federal regulations mandate that the amount of earned financial aid be evaluated and appropriate adjustment(s) of financial aid awards processed.

## Resources for Students

### Failure to Withdraw Officially

-Students are required to adhere to the University's official withdrawal policy when terminating their enrollment prior to the end of a given term. Failure to officially withdraw can result in the cancellation of any federal financial aid program funds previously awarded for that term. Federal regulations require that funds for ineligible recipients be returned to the financial aid program accounts. Students will be billed for semester charges.

### Financial Aid for Students with Previous Baccalaureate Degree

-A student who completes his or her first baccalaureate degree is not eligible to receive either a Federal Pell Grant or a Federal Supplemental Educational Opportunity Grant. It is a student's responsibility to indicate receipt of a first baccalaureate degree when completing the Free Application for Federal Student Aid (FAFSA).

### Satisfactory Academic Progress

- Federal Title IV assistance programs require students to maintain progress toward a degree. These federal programs include the Federal Pell Grants, Academic Competitiveness Grant, SMART Grant, Federal Supplemental Educational Opportunity Grants, Federal Perkins and Federal College WorkStudy Program, and Federal Direct Loans (Subsidized, Unsubsidized, and PLUS). The Nursing Loan Program is also a federal financial aid program. Undergraduate satisfactory progress for financial aid purposes requires:

- Completion of a degree within six years of full-time attendance or its equivalent;
- a cumulative grade point average of C (2.0) after 60 or more attempted hours; and
- successful completion of 67 percent of credit hours attempted.

Academic records will be reviewed at the end of each spring semester. Students who fail to make satisfactory progress will be ineligible for financial assistance.

### Student Consumer Rights and Responsibilities

A student who receives financial aid from the University has the following rights:

- To know the costs of attendance to the institution; to know all available sources of Financial Aid; to be informed of all aspects of the Financial Aid package awarded, including determination of need and disbursement of aid; to know the academic expectations of the institution; and to know the institution's refund policy.

A student also has the following responsibilities:

- To apply for aid by the established University deadline; to report any outside awards to the University Financial Aid Office; to remain in good academic standing and make appropriate academic progress; to comply with loan repayment schedules established; and to report any changes in family or student financial status to the Financial Aid Office. Financial Aid recipients also are responsible to report to the Office of Campus Life, the Student Loan Office and the Financial Aid Office when they withdraw from school.

For additional financial aid consumer information, stop by the Student Services Building to visit a Student Financial Services Advisor, call (302) 831-2126 or visit [www.udel.edu/SFS](http://www.udel.edu/SFS).

## Resources for Students

### Student Services Building

The Student Services Building on Lovett Avenue on the Newark campus provides students with a variety of services. At this facility, students can quickly and easily complete a wide range of administrative tasks, including obtaining ID Cards, paying tuition and fees and inquiring about financial aid, flexible spending accounts and dining services.

### The Distinguished Resources of the University Library

The University of Delaware Library includes a rich array of electronic and print resources. The Library includes the Hugh M. Morris Library, where the main collections are housed, the Library Annex, three branch libraries on the Newark campus - the Agriculture Library, the Chemistry Library and the Physics Library - and a fourth branch, the Marine Studies Library on the Hugh R. Sharp Campus in Lewes, Delaware.

The collections parallel the University's academic interests and support all disciplines. Electronic books, journals, and databases, books and journals in print and microform, U.S. and Delaware government publications, maps, manuscripts, media in DVD and other formats, and Internet access provide a major academic resource. Library staff members provide a wide range of services, including assistance with electronic library resources, reference assistance, interlibrary loan, instructional programs, and assistance to users with disabilities. The Library's

AskRef Live! service provides online live reference service many hours of the week.

Over 2,800,000 volumes of books and journals, more than 31,000 electronic journals, more than 270 databases, as well as more than 3,400,000 items in microtext are included in Library collections. The Library's resources are broadly based and comprehensive, with emphasis on the social sciences, humanities, science and engineering. Library Special Collections of rare books and manuscripts include the Delaware Collection; the Unidel History of Chemistry Collection; the Unidel History of Horticulture and Landscape Architecture Collection; manuscripts, such as the papers of Emily Coleman, Tennessee Williams and William Butler Yeats; and archives, including those of American Poetry and the Bird and Bull Press. Library Digital Projects including the University of Delaware Library Postcard Collections with more than 2,000 images of Delaware is accessible online at [www.lib.udel.edu/digital/](http://www.lib.udel.edu/digital/).

The Library is a depository for publications of the U.S. Government and for all patents issued by the U.S. Patents and Trademarks Office.

The University of Delaware Library Institutional Repository using DSpace software provides access to original research by University of Delaware faculty and staff via the Web at <http://dspace.udel.edu>. Faculty research collections from images of tissue arrays to Disaster Research Center report are easily available to the UD community and the world.

The Morris Library provides seating for approximately 3,000, more than 200 public access Internet workstations, more than 175 wired Internet ports and wireless Internet access in much of the Library for laptop users. The Student Multimedia Design Center, located on the Lower Level, provides more than 70 computer workstations with access to multimedia applications software, 2 studios, as well as the Internet. The Morris Library also includes a large Reserve Room designed for quiet study, group study rooms, a periodical reading room, a Special Collections area including an exhibition gallery and a reading room with a controlled environmental system for rare materials, Instructional Media carrels, Media Viewing Room, an Assistive Technology Center with special equipment and computer access, and the Student Multimedia Design Center.

The University of Delaware Library Web ([www.udel.edu/library](http://www.udel.edu/library)) offers access to the Library's

vast electronic resources, including DELCAT, the University's online catalog ([delcat.udel.edu/](http://delcat.udel.edu/)).

The Library provides online electronic access to more than 270 databases, including a large number of full-text databases with full electronic articles, as well as many reference databases in all disciplines. Electronic library resources are accessible to University of Delaware students, faculty and staff from residence halls, offices and buildings throughout the University, and to University users from off-campus using a UD computing account. The Library Web page serves as a gateway research tool and provides access to electronic resources on the Web, including those licensed for UD faculty, staff, and students. To assist users in navigating the Web, the Library has created more than 125 subject Web pages in academic disciplines. Each subject web page includes a "Guide to Internet Resources" which points to a selection of some of the best Web pages in each subject area.

The Library is a member of the Association of Research Libraries, the Center for Research Libraries, CIRLA (Chesapeake Information and Research Library Alliance), and PALINET, through which it is connected online to OCLC, the Online Computer Library Center.

For further information, call (302) 831-2965. For Library hours, call (302) 831-BOOK (2665), or check the Library Web site [www.udel.edu/library](http://www.udel.edu/library).

### **Information Technology Resources**

The University's commitment to providing a robust technological environment enables students and faculty to pursue academic studies and conduct the business of campus life easily and effectively.

Students communicate with their professors and peers, conduct research, and submit assignments using a wide range of technologies. A Student Multimedia Design Center ([www.udel.edu/smdc](http://www.udel.edu/smdc)) in the Morris Library enables students to use the latest technology to create multimedia projects for assigned course work as well as for personal use.

All University classrooms are connected to the campus network, which enables faculty to use a wide variety of multimedia services and devices in their teaching. Many faculty use a learning management system (Sakai@UD) or other web tools to enhance their courses. Some faculty use personal response systems (i.e., clickers) to engage students in class material as well as

## UNDERGRADUATE ADVISEMENT

foster a collaborative atmosphere. Classrooms have secure wireless network access to facilitate the use of laptop computers during class.

All centrally scheduled classrooms feature UD Capture, an automatic lecture capture system that records projected visuals and audio from a classroom. The captured lectures can be used by students to make up a missed class, study for an exam or a project, or to review concepts.

General access computing sites are located conveniently across campus. In these sites, students may use desktop computers or connect laptop computers via the wired or wireless network. At these locations, and other print kiosks around campus, every student may print 100 black and white pages every 6 months without charge. Detailed information about the University's printing policy can be found at ([www.it.udel.edu/computingsites](http://www.it.udel.edu/computingsites)).

### Answers To Your Questions About Computers On Campus

How can I get help for general computing problems?

Step-by-step instructions about installing and using UD-supported software can be found on IT's web site ([www.it.udel.edu](http://www.it.udel.edu)). For questions about general computing problems, contact the IT Support Center by checking the help pages on the web ([www.it.udel.edu/help](http://www.it.udel.edu/help)), sending email to [consult@udel.edu](mailto:consult@udel.edu), or calling (302) 831-6000.

Where can I get information about recommended computer hardware and software?

IT Client Support & Services (IT-CS&S) can help you decide which computer products are best suited to your needs. Recommended computer configurations can be found online ([www.it.udel.edu](http://www.it.udel.edu)). Feel free to ask questions or schedule a consultation by sending email to [consult@udel.edu](mailto:consult@udel.edu) or calling (302) 831-6000.

What computer should I bring to campus?

If you plan to bring a computer to campus, you are advised to bring one that meets the University's current minimum system requirements. Because computing technology changes rapidly, please check the IT web site ([www.it.udel.edu](http://www.it.udel.edu)) or call (302) 831-6000 for the most up-to-date information regarding minimum system requirements. For your convenience, the University also recommends that you bring a printer to campus.

How do I connect my computer to the campus network?

You can connect your computer directly to the campus network in your residence hall room. Wireless access is available at most places across campus. Off-campus students can access University resources on the web. For up-to-date information on connections or troubleshooting, consult the IT web site, send email to [consult@udel.edu](mailto:consult@udel.edu), or call (302) 831-6000. Visit The Dean of Students for Guidance and Support. The Office of the Dean of Students provides students with the support, resources, and referrals they need to succeed at the university. The office assists students having difficulties due to reasons beyond their control whether they are medical, emotional, psychological, familial, or financial in nature and offers counseling and referral for students contemplating withdrawal from or re-enrollment in the university. Our staff is available to answer questions, advocate on behalf of students, or point students and their families in the right direction to get the information they need.

Please contact the Office of the Dean of Students at (302) 831-8939, stop by 101 Hullahen Hall, email [deanofstudents@udel.edu](mailto:deanofstudents@udel.edu) or visit our web site at [www.udel.edu/studentlife/deanofstudents](http://www.udel.edu/studentlife/deanofstudents). Academic Advisement to Keep You on Track

## UNDERGRADUATE ADVISEMENT

Academic advisement is available to all students, and students are strongly encouraged to seek regular advisement through their assigned advisor. Assignment of students to advisors is coordinated by their college or major department. To find out who your faculty advisor is, call your major department or academic dean's office, or use your personal logon to your academic record in UDSIS. Freshmen and sophomores who have not yet declared a major can choose to be a part of the University Studies Program and are advised by professional staff affiliated with the University Studies Program (see below).

Academic advisors can help students with course selection, choice of major, maintaining progress toward a degree, career goals, and selection of graduate or professional schools. All freshmen are required to consult with an advisor and obtain the advisor's approval for course selection for the next semester. Academic advisors can also provide referrals to support services for students who need help with personal, medical, or other issues. Successful

undergraduate students tend to be those who meet with their advisors at least once each semester.

### **University Studies Program**

The University Studies Program advises students who have not declared a major, providing them with guidance in choice of courses for each term and eventual choice of major. The UST Program's professional advisors provide a full range of services to students from the time that they enter the University until the time that they declare a major, when they will be assigned an advisor from within their new program. The website of the University Studies Program includes extensive information to help University Studies students choose courses appropriate for majors that they may be considering - please see [www.ust.udel.edu](http://www.ust.udel.edu)

### **Associate in Arts Program**

Students in the University's Associate in Arts Program for Delaware residents are served by professional advisors who maintain office hours in Mitchell Hall, Newark as well as at the UD Academic Centers in Wilmington, Dover, and Georgetown. The Associate in Arts advisors ensure that students maintain timely progress toward completion of their Associate degree, and also work with them to facilitate their transition to the Newark campus as juniors pursuing a bachelor's degree.

### **Students Who Have a Declared Major**

Students who have a declared major and are affiliated with a specific college usually seek the assistance of their faculty advisor or the Assistant Dean of their own college, but if in transition, students are welcome to consult with professionals from the University Studies Program for referral to the appropriate office. Advisors in the University Studies Program are happy to assist students who are considering a change of major from one UD college to another and want more information on opportunities available to them.

### **Graduate Advisement**

Graduate students usually work one-to-one with their faculty advisor or thesis/dissertation director. In some departments, the student's thesis/dissertation committee members may also provide advisement. The graduate student's advisor is generally agreed upon at the time of admission or soon after.

### **Advisement For Continuing Education Students**

Current and potential continuing education students should consult the Adult Centers for Continuing Education Student Services (ACCESS)(see: [www.pcs.udel.edu/access](http://www.pcs.udel.edu/access)) for career counseling and interest assessment, educational planning and academic advisement, and administrative assistance. Offices are located in Newark at 850 Library Avenue, room 200 and in Georgetown at the William A. Carter Partnership Center on the Owens Campus of Delaware Technical & Community College. Daytime and weekday evening appointments may be arranged by calling (302) 831-2741 in Newark, or (302) 855-1630 in Georgetown. Administrative help is available for those planning to register for credit courses.

### **Maximize Your Academic Performance**

The Office of Academic Enrichment offers activities that provide undergraduates with extensive academic assistance, through individual and group tutoring, academic success and study skills workshops, and one-on-one academic support including referral assistance, throughout the year. These programs and activities are designed to help students maximize their academic performance while pursuing degree programs.

**TUTORIAL SERVICES:** Individual and group tutoring are available in a wide range of subject areas. All tutors have faculty recommendations and are screened by the Office of Academic Enrichment (OAE). In addition to the services mentioned above, the OAE publishes a directory of tutors for students who wish to select and pay for their own tutors. This TutorFind directory is available in the Office of Academic Enrichment lobby and is updated regularly.

**THE SUMMER ENRICHMENT PROGRAM**, an academically intensive five-week residential program, is offered to a limited number of incoming freshmen who have been accepted to the University and who would benefit from these academic support activities prior to their first semester. This program enables selected freshmen to become acclimated to the campus, giving them an opportunity to take coursework in mathematics, English, and academic self-management and to participate in a variety of academic support and enrichment activities.

**THE JOHN HENRY TAYLOR SCHOLARS PROGRAM** is designed for students pursuing baccalaureate degrees in the fields of

mathematics and science. Participants include students who are underrepresented in these fields with regard to ethnicity, socioeconomic status, and/or educational preparedness. John Henry Taylor Scholars are given the opportunity to participate in individual and group tutorials, mentoring, study skills, and enrichment activities. The program is designed to assist academically able students and provides opportunities for leadership. John Henry Taylor Scholars are invited to begin their studies in the Summer Enrichment Program.

### **THE STUDENT SUPPORT SERVICES PROGRAM**

**(SSSP)** is a comprehensive support service that combines academic, personal and career counseling, tutoring, cultural enrichment, personal advocacy and mentoring for students who meet program eligibility guidelines. The primary objective of the Student Support Services Program is to equip qualified students with the skills and resources necessary for academic success and, ultimately, college graduation. The program is funded by the U.S. Department of Education. University of Delaware undergraduates, with potential to be in the first generation of four-year college graduates in their families, students who come from limited-income backgrounds, and students who have a documented disability are encouraged to apply for the program. See: <http://sssp.ae.udel.edu/>

For more information, please contact the Office of Academic Enrichment, 148-150 South College Ave., Newark, DE 19716, (302) 831-4555 or visit: <http://ae.udel.edu>

### **Need Help With Math?**

The Math Tutorial Site provides free tutorial assistance and other resources for students of Intermediate Algebra (MATH 010), most one hundred level math courses and Calculus (MATH 221, MATH 241). The Tutorial Site provides math problem assistance (limited tutorial assistance in mathematics by qualified undergraduate students, and graduate students). It also has solution manuals to most of the math textbooks of courses mentioned above, and a library of Algebra, Precalculus, and Calculus textbooks. The Tutorial Site is located in 106 Ewing Hall. Students who would like information about private math tutors should contact the Academic Enrichment Center at (302) 831-2805.

### **Improve Your Writing Skills**

The University Writing Center offers individualized consultations in writing to

University students. Writers at any level and from any discipline may attend the center at no charge. Center consultants are prepared to discuss any aspect of writing. They can help writers decide on topics, how to organize information, revise a draft, document sources, or self-edit. In addition, the center offers advice on prewriting strategies, essay exams, documentation styles, and thesis or dissertation writing.

The Writing Center is located in 016 Memorial Hall. Students need to reserve a time by logging on to <http://www.english.udel.edu/wc/>.

### **Supporting The Academic Success Of All Students**

The University is committed to creating an educational community that is intellectually, culturally, and socially diverse, enriched by the contributions and full participation of people from different backgrounds. As part of its strong commitment to support a diverse student population, the University offers a number of programs and services for students in particular fields of study. These programs have been highly successful in supporting the success of students from underrepresented groups and those who face challenging social, economic, educational, or other life circumstances.

**ASPIRE** (Academic Support Program Inspiring Renaissance Educators) is housed within the Delaware Center for Teacher Education and encourages underrepresented students to pursue careers in Education. The program engages students from five colleges in activities that provide opportunities for academic and professional development. A listing of all teacher education majors offered at the University of Delaware can be found on the website below. The ASPIRE network of students and alumni is an energized force that is dedicated to the development of effective teachers and leaders for schools in Delaware and beyond.

For additional information, call (302) 831-3225 or visit [www.udel.edu/dcte/aspire/index.html](http://www.udel.edu/dcte/aspire/index.html).

**THE EXCEL PROGRAM** is a comprehensive academic and financial support for students in the Alfred Lerner College of Business and Economics. The program aims to recruit and retain academically-talented students as well as to provide assistance to students who are facing challenging social, economic, educational, cultural or other life circumstances, and/or need as determined by federal income guidelines

(FAFSA). The program also includes assistance to underrepresented students majoring in the Lerner College. The program provides selective financial assistance, academic advisement, career development and academic support, mentoring and tutorial assistance from freshman through senior year for qualified students.

Interested individuals should contact the Undergraduate Advising and Academic Services Office at (302) 831-4369 or visit <http://www.lerner.udel.edu/programs/undergraduate/excel>.

### **NUCLEUS (NETWORK OF UNDERGRADUATES COLLABORATIVE LEARNING EXPERIENCES FOR UNDER-REPRESENTED SCHOLARS)**

is an interdepartmental program in the College of Arts and Sciences. Funded by the Howard Hughes Medical Institute's Undergraduate Science Education Program, its goal is to recruit, retain and graduate academically talented students, including underrepresented students, majoring in the sciences. NUCLEUS assists such students in attaining their bachelor's degree and encourages them to pursue advanced degrees in the sciences. Concentrating on mentoring and student advisement throughout the undergraduate career, this program provides comprehensive academic enrichment services. Academic monitoring, community outreach and undergraduate research opportunities create an environment that encourages positive integration and academic achievement.

For additional information, call (302) 831-3095 or visit [www.udel.edu/NUCLEUS](http://www.udel.edu/NUCLEUS).

### **RISE (RESOURCES TO INSURE SUCCESSFUL ENGINEERS)**

is a comprehensive support program for students in the College of Engineering. A key component of the RISE program is the summer bridging experience, which takes place before the freshman year to provide a transitional period for incoming freshmen through a strictly regimented schedule, mandatory study halls and tutoring. Throughout their college experience, RISE students receive tutorial assistance, as needed, as well as guidance in time management, academic mentoring, career and professional development workshops, interaction with faculty, student organizational participation and academic achievement recognition. These services are designed to promote academic and career related success. For further information, call (302) 831-6315 or visit [www.engr.udel.edu/rise](http://www.engr.udel.edu/rise). Ensuring That All Students Feel Welcome The University is committed to creating an educational community that is intellectually,

culturally, and socially diverse, enriched by the contributions and full participation of people from different backgrounds. Toward that end, the University seeks to increase the racial and cultural diversity of its student body, faculty, and staff, to create a climate that encourages all members of the University community to respect and appreciate individual and cultural differences, to promote equity for people of different backgrounds in all areas of University life, to develop organizational practices that involve the participation of diverse groups, and to enhance the curriculum by including the perspectives of different races, cultures, and genders.

UD's commitment to diversity is long-standing. Years ago, the UD Faculty Senate adopted a resolution that stated our commitment to treating everyone with respect and dignity. In 2007, President Harker unveiled UD's Strategic Plan-- the Path to Prominence™ - featuring diversity as a guiding principle. The University of Delaware has made significant progress in its commitment to diversity. University of Delaware students, faculty and staff of all backgrounds come to this community and achieve. We are very proud of our accomplishments. We invite you to explore our offices and programs designed to present and celebrate the contributions and perspectives of our diverse community of students, scholars, and employees by visiting [www.udel.edu/diversity](http://www.udel.edu/diversity).

The Office of Equity and Inclusion was established to advocate for an equitable and inclusive work and learning environment in four function areas: affirmative action, campus diversity, women's affairs, and LGBT community issues. The office is located in 305 Hullihen Hall, for further information, please contact (302) 831-8063 or visit [www.udel.edu/oei](http://www.udel.edu/oei).

### **Is English Your Second Language?**

The English Language Institute is a University support service for foreign students who need to improve their language skills for graduate or undergraduate study. The Institute offers six levels of intensive language instruction, which address listening, speaking, reading, vocabulary, and writing skills. For graduate and undergraduate students, the Institute offers two courses in English for academic purposes. One focuses on developing the oral/aural skills necessary for such academic activities as note taking, test taking, oral presentations, and seminar discussions, and the other emphasizes composition skills necessary for research and

college writing and reading skills for improving speed and comprehension. Students in the Institute receive tutoring as well as access to computer-assisted instruction. Additional programs offered by the Institute include a testing preparation course to develop skills and strategies for taking the language proficiency sections of such tests as the TOEFL, GRE, and GMAT. The ELI also offers business English courses, a semi-intensive evening program, a Prelaw, and a PREMBA program. Private tutoring in language skills also is available. Discounts are available for spouses of graduate students and visiting scholars; fee waivers are accepted for full time employees and their qualified family members. The Institute is located at 189 West Main Street, Newark, DE. For further information, call (302) 831-2674 or visit [www.udel.edu/eli](http://www.udel.edu/eli). Welcoming Members Of Our International Community

The Office for International Students and Scholars offers a support system for students (both undergraduate and graduate) as well as for students in the English Language Institute, and visiting scholars and their immediate families.

Services include , but are not limited to, immigration regulations, academic and personal counseling, and cultural adaptation. Information on travel abroad and travel advisories are available. Permanent Residency sponsorship is available to qualified university employees. The Office for International Students & Scholars is located at 413 Academy Street. For more information, call (302) 831-2115 or visit our website at [www.udel.edu/oiss](http://www.udel.edu/oiss).

### **Keeping Our Students Healthy**

The Student Health Service (SHS), nationally accredited by the Accreditation Association for Ambulatory Health Care (AAAHC), located in Laurel Hall on the south end of the The Green, provides out-patient and in-patient medical services for all undergraduate and graduate students. The SHS is staffed by well-trained, fully-licensed professionals. The physician staff are board-certified, board-eligible, or fellowship-trained in the following specialties: family practice, pediatrics, gynecology, internal medicine, and sports medicine.

SHS physicians and nurses are available to see patients from 8:00 a.m. to 4:30 p.m., Monday through Friday. On-call physician coverage is maintained for telephone consultation on nights and weekends when the SHS is open. Students may see nurses, nurse practitioners,

or physicians by appointment. Students without appointments are screened by a triage nurse; seriously ill patients are seen immediately and may be referred directly for hospital emergency care. Other patients are treated or scheduled for further care based on the urgency of the illness or injury.

Services include X-ray and some laboratory testing, surgical treatment for minor lacerations, EKG testing, some non-operative orthopedic services, University of Delaware Emergency Care Unit (UDECU) hospital transport services and evaluation and referral for complex medical cases. Out-patient services also include an immunization clinic for allergy injections, routine immunizations and travel vaccines, gynecologic service, and a sports medicine clinic in the Bob Carpenter Sports/Convocation Center. Many prescription and over-the-counter medications are available in the SHS Dispensary. A number of prescription card plans as well as most major credit cards, checks, and cash are accepted for these medications. The SHS also provides equipment (sharps containers for lancets, needles, etc.) and information on the availability of other services on campus for the handling of infectious medical wastes (e.g., material contaminated with blood or other potentially infectious materials). Through its Self-Care Cold Clinic and Self-Care Wound Clinic, the SHS supports students with educational materials and some complementary over-the-counter medications, providing self-directed care for minor health problems.

The SHS also assists a Sexual Offense Support (SOS) group to help survivors of sexual offense, and to provide individual education on acquaintance/date rape awareness and prevention.

All full-time students are eligible for these services and are charged the semester and winter session health fee. This fee does not cover X-ray costs, prescription drugs, orthopedic appliances, private ambulance services, some special injections, P.P.D. tests, off-campus laboratory testing sent to private labs, and any off-campus transport for medical care specialists. The student health fee also supports the mental health services offered through the Center for Counseling and Student Development. Part-time matriculated students can receive health services by paying the health fee for full coverage or by paying a fee-for-service. The University sponsors an optional accident and sickness insurance program for all admitted full- and part-time students. All services listed are provided as of

January 2010 and are subject to change. For more information, call (302) 831-2226 or visit [www.udel.edu/studenthealth](http://www.udel.edu/studenthealth).

To ensure confidentiality, do not use e-mail to correspond with SHS practitioners on personal health issues.

### **Counseling Center To Help You Fulfill Your Potential**

Services at the Center for Counseling and Student Development include individual counseling, group counseling, career development programs, special interest workshops and consultations with University groups and individuals. These services are available to all matriculated students who pay the Student Health fee. The Center is staffed by psychologists, psychiatrists, and counselors who are trained to assist college students achieve their full academic potential, make realistic career and education plans and work toward resolution of personal concerns. At the Center, students may freely discuss, in a confidential and professional setting, any concerns they may be experiencing. The Center also serves as a referral agency by helping students who need specialized assistance to locate appropriate campus and off-campus resources. To make an appointment, visit or call one of the campus centers: 261 Perkins Student Center (302) 831-2141 or 209 Laurel Hall (302) 831-8992. More information can be found at [www.udel.edu/counseling](http://www.udel.edu/counseling).

### **Wellspring Promotes Student Wellness**

Balancing academics, employment, finances, relationships, friendships, family, and social activities while in college can be difficult. It can also take a toll on one's physical and emotional health. The Wellspring Student Wellness Program promotes students' behavioral and emotional wellness and helps students evaluate options for maintaining healthy lifestyles, through prevention, intervention, support and education. Core topics addressed by the program are those most salient to the well-being of traditional college-aged persons, such as nutrition, fitness, stress management, relaxation, body image, disordered eating, recreational drug and alcohol use, tobacco cessation, gambling, issues regarding sexuality, sexual assault, and dating violence.

Specific services provided for University of Delaware students include:

Individual appointments for wellness check-ups and/or on-going support with a Behavioral Health Specialist for any of the topics listed above;

Substance abuse screening, assessment, brief intervention and individual or group counseling with a Substance Abuse Counselor; [www.udel.edu/Wellspring](http://www.udel.edu/Wellspring)

Sexual assault and/or dating violence 24 hours, 7 days per week crisis intervention, support, advocacy, and information;

Counseling sessions and group support for survivors of sexual abuse;

Interactive, educational outreach programs/workshops, self-help materials, and other resources available online at [www.udel.edu/Wellspring](http://www.udel.edu/Wellspring);

Volunteer opportunities in peer mentoring/education and health promotion;

Opportunities to serve on a council, coalition, or committee addressing on-going wellness initiatives;

Resource materials for class papers, projects, and/or presentations in residence halls, classrooms, clubs, or the community;

Wellness classes and undergraduate internships for academic credit;

Help for friends and significant others;

Student-to-student peer support.

Wellspring also provides the following services for parents, UD faculty and staff, and others in the community:

Consultation about and referral to on-campus and local health-related resource;

Information about how a student's wellness or health concerns might be exacerbated by the college environment, and/or how they might impact a student's personal development;

Guest speakers for events, clubs or classes;

Support, information, and referrals to assist in helping students with their personal issues which might be interfering with their academic performance.

For more information, call (302) 831-3457 or go to [www.udel.edu/Wellspring](http://www.udel.edu/Wellspring).

### **Helping Athletes Meet Academic Goals**

The University of Delaware is committed to promoting the academic and athletic achievement and personal development of its student-athletes. Toward that end, Student Services for Athletes (SSA), a comprehensive program of support and life skills development, assists student athletes with making the best possible academic and personal adjustment to the University.

The staff of Student Services for Athletes works closely with coaches, faculty, and student services personnel to help student-athletes balance the demands of their academic responsibilities and participation in athletics. Student Services for Athletes directly assists student-athletes through counseling, academic support, workshops and programs, teaching, and publications.

SSA also serves student-athletes through co-sponsorship of the student-athlete advisory council and the HENS peer mentoring program. The program serves the professional community through its research, training, and consultation activities, and by publishing and presenting to other professionals providing support services to student-athletes.

The SSA staff is comprised of professional staff, graduate students, and interns in both college counseling and athletic counseling, all experienced in general counseling issues as well as issues specific to student-athletes.

For additional information, please contact the offices of Student Services for Athletes in 108-G Delaware Field House, telephone (302) 831-4571, or visit the SSA web site at [www.udel.edu/ssa](http://www.udel.edu/ssa).  
Disability Support Services

In accordance with the Americans with Disabilities Act of 1990 and the Rehabilitation Act of 1973, the University of Delaware is committed to providing equal access for students, employees and visitors with a disability. The Disabilities Support Services (DSS) office provides reasonable accommodations and ensures equal access to University programs and services. The DSS office works with individuals who have physical, medical, psychological disabilities, as well as learning disabilities and ADHD.

Anyone requiring an accommodation from the University based on a disability should contact the DSS office directly. It is the individual's responsibility to inform the DSS office of the disability and need for accommodation. The DSS staff works in conjunction with other University departments to assist individuals with disabilities. Eligibility for reasonable accommodations is determined on a case-by-case basis utilizing established documentation guidelines. Please contact a DSS professional by phone (302) 831-4643, by TDD (302) 831-4563, by fax (302) 831-3261, by email [DSSoffice@udel.edu](mailto:DSSoffice@udel.edu), or visit the website at [www.udel.edu/DSS](http://www.udel.edu/DSS).

The University of Delaware has designated Karen Doneker Mancini, Director of the Office of Disabilities Support Services, as its ADA/Section 504 Coordinator under federal law. Inquiries concerning Americans with Disabilities Act compliance, Section 504 compliance, campus accessibility, and related issues should be referred to Karen Mancini in the Office of Disabilities Support Services. The office is located at 240 Academy Street, Alison Hall, Suite 119, Newark, DE 19716.

Students with temporary disabling conditions should contact the DSS office to discuss accommodations. University visitors with a disability are asked to contact the sponsoring department in advance to ensure appropriate arrangements can be made.

### **Prepare For Future Success With Career Services**

The Bank of America Career Services Center offers career planning, experiential, graduate school admissions, and job placement programs to provide matriculated students with a variety of opportunities to learn about and prepare for eventual careers. Career planning and experiential programs are available to students at all academic levels, while job search services are directed to students in the final year of their degree program. Assistance is also available to alumni.

Experiential programs provide an excellent means for exploring career alternatives and building one's resume. These include the (credit and non-credit) internships, volunteer opportunities, and part-time and summer jobs. Resources are available for locating local, regional, national, and international internship and volunteer placements. Both undergraduate and graduate students may participate in these opportunities concurrently with classes, in the Summer or Winter Sessions, or during leave of absence from the University. Positions relate to a wide variety of academic disciplines. Part-time, summer jobs and internships, as well as volunteer opportunities, are managed by Blue Hen Jobs, an on-line database available to all students and located at [www.udel.edu/csc](http://www.udel.edu/csc).

Career planning programs are available to assist students in preparing for employment. A special workshop series covers such topics as resume writing, vita and dossier preparation, interview techniques, graduate school admissions, and job search strategies. These and other programs are offered to students and alumni throughout the year. The Career Center web site provides an

updated listing of all programs. Students also may discuss career-related concerns in individual interviews with professional staff members.

**The Sharf/Townsend Career Library**, a comprehensive library of career-related information, contains materials for students to use on site and online. Resources include books; experiential opportunities; trade publications; employer directories; occupational literature; graduate and professional school information; Computer terminals in the Sharf/Townsend Career Library provide access to the World Wide Web. The center's home page ([www.udel.edu/CSC/](http://www.udel.edu/CSC/)) introduces students to career-related events, job listings through Blue Hen Jobs, employer information and graduate and professional schools worldwide.

Employment Services, including a Campus Interview Program, Resume Referral Service, job fairs, and employer information are available to UD students nearing completion of their academic degrees. The Campus Interview Program includes more than 300 business, industry, government, and service organizations who visit the campus annually. An additional 1,000 employers participate in the eleven job fairs offered each year. Credential Services are available through a partnership with Interfolio, Inc.

The Bank of America Career Services Center is located at 401 Academy Street. For further information on the Experiential Program, call (302) 831-1231. For general information, call (302) 831-2392, and for information on the Campus Interview Program, call (302) 831-2391 or visit [www.udel.edu/CSC/](http://www.udel.edu/CSC/).

### **Standardized Testing: Advanced Degree and Certification**

About CBTC (Computer Based Testing Center)  
The University of Delaware provides an on-site location for members of the University community, as well as the general public, to take standardized tests offered by the Educational Testing Service (ETS). The following tests are offered regularly:

GRE - call 1-800-GRE-CALL (1-800-473-2255)  
PRAXIS - call 1-800-853-6773  
TOEFL - call 1-800-GO-TOEFL (1-800-468-6335)  
MCAT - call 1-202-828-0690 (Association of American Medical Colleges)

In addition, the following paper and pencil tests are offered periodically on campus:

LSAT - call 1-215-968-1001 weekdays during hours 8:30 am- 7:00 pm (ET) (September to March); or 8:30 am - 4:45 pm (ET) (April to August) (Law School Admissions Council).

PRAXIS I & II – go to [www.ETS.org](http://www.ETS.org)  
ACT- call 1-319-337-1270 or go to [www.ACT.org](http://www.ACT.org)

How to Register to Take a Test:

Contact the respective test either by telephone or on-line (respective information above);  
Call the CBTC at 302-831-6717

Interpretation of the Course Listings

IFST 445 (A.) Parent Resources (B.) 2 (C.1.) \_\_\_\_ (D.1.)

Emphasis on techniques in working and communicating with parents, understanding parent-child relationships and effectively utilizing parent, teacher, home, school and community resources. (E.)

PREREQ: HDFS101. (F)

COREQ: HDFS459 or EDUC400 (G.)

HDFS 449 Internship in Community Services 3-9 (C.2.) PF (D.2.)

On-the-job experience in a community and family service agency.

RESTRICTIONS: Requires permission of instructor. (H.)

A. Subject area and catalog number

B. Courses title

C. Credit hours

When only one number is listed it is a fixed credit hour course

When two numbers are listed it is a variable credit hour course. The lower number is the minimum number of credits that a student may take in a section of this course in a semester. The higher is the maximum number of credits that a student may take in this courses in a semester. A department may choose to offer a variable credit hour course as fixed in a particular semester, as long as the number of credit hours is within the range of the minimum and maximum for the course.

D. Grade types:

When blank, the course is a letter graded course.

Course for which the grade is either pass or fail.

R, RP – Not for baccalaureate credit.

NR – No grade required.

E. Brief description of the course.

## Student Life and Activities

F. Prerequisites may be satisfied by the course or courses indicated or by equivalent preparation.

G. Corequisite course or courses should be taken in the same semester as the course.

H. Special requirements for the courses. Some courses only offered during specific semesters have those semesters identified here.

Questions about when a course will be offered should be directed to the department.

Interpretation of the course numbers:

001-009	Below baccalaureate degree
100-199	Introductory-level courses
200-299	Introductory and intermediate courses, usually requiring some previous knowledge or experience in the discipline
300-399	Courses with a more concentrated focus on the subject matter in a particular discipline
400-499	Advanced courses for majors and other qualified students
500-599	Graduate-level courses for the nonspecialist
600-699	Graduate-level courses, also open to advanced undergraduates
700-799	Graduate-level courses
800-899	Graduate-level courses
900-999	PhD-level courses
X66	Special problems and independent study
X67	Experimental course (may be offered twice)

Courses numbered 500-599 may not be taken for graduate credit in a student's major. With the approval of the graduate student's major department, 500-level courses taken outside the student's major may be counted toward graduate degree requirements.

Courses numbered 600-699 are graduate-level courses, also open to qualified advanced undergraduate with the consent of the instructor. There should be a single standard of expectation and grading for all students registered at this level.

In those few cases where the number of either undergraduate students or graduate students does not permit adequate offerings of both a 400-level and a 600-level course, a graduate 600-level course may be combined with a separately numbered 400-level undergraduate course in the same section. The graduate component must then be offered with a graduate standard of expectation and grading.

The appropriateness of 600-numbered courses for undergraduate credit is subject to review by the Committee on Undergraduate Studies.

## Student Life and Activities

Student Government Represents You

**THE STUDENT GOVERNMENT ASSOCIATION (SGA)** is the official student governing body of which all matriculated undergraduate students are considered members. This organization assumes the responsibility of self-government, as delegated by the University faculty and administration. Its overall charge is to identify the needs of students and bring them to the attention of the administration, faculty, and City of Newark government officials. SGA interprets University policy to the student body and represents the approximately 300 Registered Student Organizations to the university administration.

SGA consists of six executive officers elected through a campus wide vote. Committee chairs and members provide leadership for a variety of administrative and academic responsibilities. In addition, SGA appoints student representatives to University faculty, student and Board of Trustees committees.

For further information, call (302) 831-2648, or visit the SGA website at <http://copland.udel.edu/stu-org/SGA/>.

## THE GRADUATE STUDENT SENATE (GSS)

presents a forum through which graduate students from all the University of Delaware departments and programs can come together to share information, to represent graduate student opinion, and to discuss issues that affect graduate students. The GSS acts as an advocate for graduate students while fostering collegiality and professionalism. The GSS is charged broadly with several principal duties:

To foster a sense of connection among graduate students in all departments.

To represent an informed consensus of graduate student opinions and to advocate for those positions.

To serve as a forum for discussion of issues that affect graduate students, and as a vehicle for action on those issues.

Each graduate academic program or department is invited to send up to two representatives to the GSS. For more information visit: [www.udel.edu/gradoffice/gradsenate/MoreThanARoof](http://www.udel.edu/gradoffice/gradsenate/MoreThanARoof)

## **Over Your Head In The Residence Halls**

### Philosophy

The residence life program is a vital part of the educational mission of the University. While creating an environment that is a student's home away from home, staff members strive to assist students in meeting the developmental and academic challenges faced during their college years. This includes helping them transition to college life, engaging them with the richness of the University environment, and providing them with opportunities to learn about themselves and others. The end goal of the residential experience is the development of good citizens who can reach their fullest potential. Professional staff members oversee each residential complex and each hall also has a graduate student or professional hall director who is assisted by upper-division resident assistants. Students are expected to contribute to the development of a positive residence hall community by respecting the rights of others and asserting their own rights. **Non-Smoking Policy**

To further ensure the health and safety of the University community, all University-owned student housing on the Newark campus is smoke-free. **Single Undergraduate Housing**

The University offers a number of housing options to suit the needs of single undergraduates:

Traditional residence halls contain double rooms, single rooms, and some triple/quad rooms with shared bathroom facilities. A limited number of rooms share adjoining baths.

Several buildings on Laird Campus have suite-style housing with two double or two single rooms sharing an adjoining bath.

The Ray Street halls offer suite-style housing with two double rooms sharing an adjoining bath. The Ray Street complex accommodates students in Special Interest Housing communities as well as students not affiliated with these programs.

The Christiana Towers apartment complex features furnished one- and two-bedroom units with bath, kitchenette, and a living/dining room.

Many special living options are available in undergraduate housing. Some of these options are Substance-Free Building in South Central, Honors Housing for freshmen and upper-class students, Special Interest Communities, Friends Together Option for upper-class students, the Transfer Community in Ray Street, and the Kosher option (Christiana Towers only).

Cable TV and computer network service are provided in all rooms and apartments. Common areas for study, recreation, laundry, etc. are available in each complex. Custodial service is provided only in the common areas. The rates include all utilities, cable TV service, and computer network connection.

Rooms are furnished with beds, dressers, closets or wardrobes, curtains, blinds, or shades, study desks and chairs, lighting, and wastebaskets. Students must bring their own linens, pillows, blankets, bedspreads, and study lamps.

All upper-class residence halls and most freshman residence halls remain open during regular break periods when there are no classes or the University of Delaware is closed. Residents in these buildings may request to remain in their rooms during these periods for a nominal charge for the entire break period. Christiana Towers apartments remain open during regular break periods at no additional charge but close, like all other residences, at the end of the spring semester. Students in all areas are required to vacate and remove all personal belongings from their rooms within 24 hours after completion of their last final examination in the spring semester.

A dining plan is required for all students living in a residence hall during all University sessions. Students living in Christiana Towers Apartments, Graduate Student and Family Housing, or off-campus may purchase an optional dining plan for winter session or summer session.

Additional information about on-campus housing can be found online at [www.udel.edu/has/](http://www.udel.edu/has/). Please write or call Housing Assignment Services at 5 Courtney Street, Newark, DE 19716, (302) 831-3676 or e-mail [UD-Housing@udel.edu](mailto:UD-Housing@udel.edu). Graduate Student And Family Housing Housing Assignment Services offers limited on-campus rooms and apartments to assist graduate students in making the transition to the University and Newark communities.

Single graduate students may choose from one- and two-bedroom apartments in the Conover complex and single rooms in the Graduate House on West Main Street. All apartments are furnished and air conditioned.

Full-time graduate or undergraduate students who want to live with a spouse, children, or other individuals who constitute their family may choose housing in the Conover Apartments. Documentation of the family relationship is

required. Most family apartments are furnished.

The occupancy period for graduate and family housing generally runs from August 15 through July 31 of the following year. August rent will be pro-rated depending upon the date of check-in. Monthly rent payments include cable television, computer network service, and all utilities. Students residing in graduate and family housing are not required to purchase a dining plan, although one can be purchased and used in nearby dining halls.

Additional information about on-campus housing can be found online at [www.udel.edu/has/](http://www.udel.edu/has/). Please write or call Housing Assignment Services at 5 Courtney Street, Newark, DE 19716, (302) 831-3676, FAX (302) 831-4266, or e-mail: [grad-family-housing@udel.edu](mailto:grad-family-housing@udel.edu). Keeping Our Students Healthy

The Student Health Service (SHS), nationally accredited by Accreditation Association for Ambulatory Health Care (AAAHC), located in Laurel Hall on the south end of the The Green, provides out-patient and in-patient medical services for all undergraduate and graduate students. The SHS is staffed by well-trained, fully-licensed professionals. The physicians on staff are board-certified, board-eligible, or fellowship-trained in the following specialties: family practice, pediatrics, gynecology, internal medicine, and sports medicine.

SHS physicians and nurses are available to see patients from 8:00 a.m. to 4:30 p.m., Monday through Friday. On-call physician coverage is maintained for telephone consultation on nights and weekends when the SHS is open. Students may see nurses, nurse practitioners, or physicians by appointment. Students without appointments are screened by a triage nurse; seriously ill patients are seen immediately and may be referred directly for hospital emergency care. Other patients are treated or scheduled for further care based on the urgency of the illness or injury.

Services include X-ray and some laboratory testing, surgical treatment for minor lacerations, EKG testing, some non-operative orthopedic services, University of Delaware Emergency Care Unit (UDECU) hospital transport services and evaluation and referral for complex medical cases. Out-patient services also include an immunization clinic for allergy injections, routine immunizations and travel vaccines, gynecologic service, and a sports medicine clinic in the Bob Carpenter Sports/Convocation Center. Many

prescription and over-the-counter medications are available in the SHS Dispensary. A number of prescription card plans as well as most major credit cards, checks, and cash are accepted for these medications. The SHS also provides equipment (sharps containers for lancets, needles, etc.) and information on the availability of other services on campus for the handling of infectious medical wastes (e.g., material contaminated with blood or other potentially infectious materials). Through its Self-Care Cold Clinic and Self-Care Wound Clinic, the SHS supports students with educational materials and some complementary over-the-counter medications, providing self-directed care for minor health problems.

The SHS also assists a Sexual Offense Support (SOS) group to help survivors of sexual offense, and to provide individual education on acquaintance/date rape awareness and prevention.

All full-time students are eligible for these services and are charged the semester and winter session health fee. This fee does not cover X-ray costs, prescription drugs, orthopedic appliances, private ambulance services, some special injections, P.P.D. tests, off-campus laboratory testing sent to private labs, and any off-campus transport for medical care specialists. The student health fee also supports the mental health services offered through the Center for Counseling and Student Development. Part-time matriculated students can receive health services by paying the health fee for full coverage or by paying a fee-for-service. The University sponsors an optional accident and sickness insurance program for all admitted full- and part-time students. All services listed are provided as of January 2010 and are subject to change. For more information, call (302) 831-2226 or visit [www.udel.edu/studenthealth](http://www.udel.edu/studenthealth).

To ensure confidentiality, do not use e-mail to correspond with SHS practitioners on personal health issues.

#### Student Centers

The John A. Perkins Student Center and the E. Arthur Trabant University Center provide facilities and services for students, faculty, staff, alumni, and the community. The University Student Centers services include meeting rooms for campus groups, a number of student lounges, copy center, the Bacchus Theatre, a bank, the Hen Zone (recreational game area), a movie theatre, an information center, and an exhibition area. The Centers offer billiards and sports television.

There are extensive student dining options in the Centers.

Many extracurricular programs are organized through the University Student Centers. The Centers' staff and the Student Centers Program Advisory Board (SCPAB) offer film series, "popular" and classical concerts, art exhibitions, and bus tours to nearby cities, cultural exhibits, and athletic events.

The offices of several student organizations are located in the Trabant University Center including the Student Government Association (SGA); the Student Centers Program Advisory Board (SCPAB); HAVEN, the lesbian gay bisexual student group; Fraternity and Sorority Life; and HOLA. Resident Student Association (RSA), WVUD 91.3 FM, and the Review student newspaper are among the student organizations housed in the Perkins Student Center. For additional information, see [www.udel.edu/student-centers](http://www.udel.edu/student-centers) or call 831-1036.

### **Religious And Spiritual Life**

Recognition is given to the importance of religious and spiritual life as a valued ethical and moral influence in the development of the individual. Students are encouraged to contact the religious registered student organization of their choice and attend religious services of their preference. Most religious traditions are represented in the Newark area or in nearby Wilmington. To find a Religious and Spiritual Life Liaison in the area through the University Religious Leaders Organization, please visit the URL online at <http://www.Udel.edu/PR/spirituallife>. Religious registered student organizations on campus include: Baha'i Club, Baptist Campus Ministry, Blue Hens for Christ (Church of Christ), Campus Crusade for Christ, Catholic Campus Ministry, Chabad Center for Jewish Life, Church & Campus Connection, Coptic Orthodox Youth Association, Delaware Valley Zen Group, Episcopal Campus Ministry, Inter-Varsity Christian Fellowship, Keshet, Koach, Kristol Center for Jewish Life (Hillel), Lutheran Campus Ministry, Muslim Student Association, Orthodox Christian Fellowship, Presbyterian Campus Ministry, Unitarian Universalists, Warriors for Christ, Wesley Foundation (United Methodist Campus Ministry,) Word of Life Campus Ministry, and Young Life, among others.

Religious registered student organization information can be found online at <http://www.udel.edu/RSO/>. A Vibrant Cultural And Intellectual Community

The Departments of Art, Music, and Theatre, along with the Trabant University Center, the Perkins Student Center, the Center for International Studies, the Student Center Program Advisory Board, the Cultural Programs Advisory Board, the University Museums, and the Performing Arts Series offer a variety of concerts, films, theatre productions, and art exhibitions at the University. In addition, the Center for International Studies, the Student Centers, and the Faculty Senate Committee on Cultural Activities and Public Events bring to the campus many outstanding music, dance, opera, and theatre programs. Bus tours are offered to the Philadelphia Orchestra series at the Academy of Music in Philadelphia, to the Metropolitan Opera in New York, and to selected museum exhibits and theatre productions.

The intellectual life of the University community is enriched by the many outstanding visiting scholars and lecturers who are invited to the campus. A well-established Visiting Scholars Program sponsors many of these scholars, who speak to classes and often present an evening lecture for interested members of the community. Students are given several opportunities to talk with these visitors at luncheons, dinners, or in informal conferences.

The Office of Equity and Inclusion offers programs, events, and lectures from distinguished scholars and speakers from underrepresented groups. The Winterthur Program in Early American Culture brings distinguished visiting scholars to the University to spend several days.

During the academic year, many lecture series are offered by academic units throughout the campus, and a number of special university-wide lecture series on topics of national or international interest are sponsored by cooperating units.

For information on all events, call UD1-HENS (831-4367) or visit UDaily online at [www.udel.edu/udaily/](http://www.udel.edu/udaily/). Center for Black Culture

In 1968, a university committee convened to examine the needs of African American students at the University of Delaware. In their final report was a recommendation that the University create a center in which African American students could congregate, organize cultural events, and develop a community of support. As a result, the Center for Black Culture (CBC) was established in 1976.

Today, the CBC is commonly referred to as a “Home Away from Home” for many black students, and it also provides support to other underrepresented student populations. The mission of the Center for Black Culture is to create a supportive environment that encourages the full participation of underrepresented students in all areas of the University, and to enhance the sensitivity of the larger community to the challenges, needs, and interests of these students. The Center assists underrepresented students in understanding and assessing the various resources available to them, both on and off campus, by providing information, advice, programs, and initiatives as identified. Offering a variety of cultural programs, including notable guest speakers, workshops, films, artistic performances, heritage month celebrations, and excursions, is another key function of the CBC.

By building and maintaining on-going relationships with faculty/staff, alumni, university departments and academic units, and community agencies, the CBC works to increase the retention rates of underrepresented students at UD, and to expand educational growth opportunities for all students. The Center advocates for the needs of underrepresented students and student organizations, by recommending institutional structures, policies, and practices that will enhance the student experience.

The Center is located at 192 South College Avenue. For more information, please call (302) 831-2991 or e-mail us at [cbc@udel.edu](mailto:cbc@udel.edu) or visit our website at [www.udel.edu/CBC](http://www.udel.edu/CBC).  
Musical Opportunities For All Students

Each year the Department of Music sponsors a full season of recitals and concerts by faculty, guest artists, and student performers. The campus community is invited to attend all performances; many are free, although an admission fee is charged for some concerts. Information about performance schedules can be obtained by calling (302) 831-2577, or on the web at <http://ravel.music.udel.edu/calendar>.

Private study (vocal and instrumental) with a Music Department faculty member is available to full-time undergraduate University students on a space available basis. Non-music majors who pass an audition at the start of the semester may be accepted for private study either as music minors (2 credits per semester) or through the Music Merit Award Program (1 credit per semester). Freshman honors students who pass the audition are also eligible for private

study (1 credit per semester). All students taking private study are required to participate in a departmentally-approved ensemble.

Students interested in performing in a musical ensemble may participate in the Choral Union, Chorale, Collegium Musicum, Opera Workshop, University Singers, Marching Band, Wind Ensemble, Symphonic Band, Jazz Ensemble, Symphony Orchestra/University Strings, Delaware Steel, and a variety of chamber ensembles. Students need not be music majors, although an audition is necessary for most ensembles. For information on joining a group, call the Department of Music at (302) 831-2577.

The faculty of the Department of Music participate in a number of ensembles including the Del’Arte Wind Quintet, the Faculty Jazz Ensemble, and the Taggart-Grycky Flute and Guitar Duo. Faculty ensembles and soloists perform regularly on campus and may be available for lecture-demonstrations, master classes, or performances. For scheduling information, call (302) 831-1527. Expand Your Horizons At University Museums

University Museums oversees the art collections of the University as well as three galleries on the Newark campus that offer a welcoming space for study of art or a casual visit, and also provide opportunities for study of original works of art and mineralogical specimens. The University Museums staff provides access to collections for students and classes, and also offers an apprenticeship program to selected advanced undergraduates.

MECHANICAL HALL GALLERY houses UD’s African American art collection, including the Paul R. Jones gift, an impressive survey of prints from the Brandywine Workshop in Philadelphia, and important photographs by P.H. Polk. The gallery offers changing exhibitions of contemporary African American art and related topics. In addition to the gallery space, the building houses a print study room.

MINERALOGICAL MUSEUM, located in Penny Hall, is an internationally recognized repository of important mineral specimens from around the world. Its mission is to acquire, preserve, exhibit, research, and interpret minerals and related geological materials for the enjoyment and education of students and the community at large. The museum reopened in spring 2009, following a complete renovation.

OLD COLLEGE GALLERY reopened in fall 2010 as an exhibiton space for the University Collection, with particular strengths in pre-Columbian ceramics, Russian icons, and American art of the 20th century. Temporary exhibitions offered in the adjacent West Gallery focus on particular aspects of the Museums' collections of photography, prints and drawing, as well as other collections on campus and selected contemporary artists. In addition to the gallery space, 201 Old College provides an object study room for students and classes.

All Museums exhibitions and programs are offered free of charge.

For information, call (302) 831-8037; Fax: (302) 831-8057; website: [www.udel.edu/museums](http://www.udel.edu/museums). The Ink And Airwaves Of Student Communications

The student media of the University are the Review student newspaper and the "Voice of the University of Delaware," WVUD, 91.3 FM radio, which are professionally advised and operated by University students.

For more information:

The Review: [www.udreview.com](http://www.udreview.com) or call (302) 831-2771

WVUD: [www.wvud.org](http://www.wvud.org) or call (302) 831-2701

### **Join an Organization or Start Your Own**

Over 300 Registered Student Organizations provide leadership experiences and special interest opportunities at the University. Students can choose from departmental clubs, professional societies, cultural associations, recreational, social, and educational activities. Call 831-2428 for information or see [www.udel.edu/student-centers](http://www.udel.edu/student-centers). Fraternity and Sorority Life

Fraternity and Sorority Life at the University offers students an opportunity to belong to one of the more than 40 active chapters of national fraternities and sororities on campus. The Student Centers oversees Fraternity & Sorority Life and advises all chapters and colonies as well as their respective coordinating councils - the Interfraternity Council, the Panhellenic Council, the National Panhellenic Council, Special Interest Fraternities and Sororities, National Association of Latino Fraternal Organizations, and the Greek Council.

For information call the office at (302) 831-1296; [www.udel.edu/student-centers/FandS](http://www.udel.edu/student-centers/FandS). Blue Hens Winning Spirit

The primary mission of the University of Delaware's Division of Intercollegiate Athletics and Recreation Services (Division) is to provide meaningful learning experiences through physical and mental exertion. The Division's multifaceted approach will provide a variety of programs while educating students to be responsible, contributing citizens. This will be accomplished by providing participation opportunities in fitness, club sports, intramurals and overall wellness programs while fielding championship-seeking intercollegiate athletics teams. The following will serve as guiding principles: a "students-first" focus, academic integrity, equity and inclusion, access and opportunity, sportsmanship, quality leadership and facilities, authentic excellence and fiscal responsibility. To this end, a robust intercollegiate athletics and recreation program will support a healthy and vibrant campus by encouraging the University community to go beyond their individual limits, become leaders and establish a zest for life-long learning and wellness. Supporting the University's Path to Prominence?, the Division dares to build on its history by pursuing excellence in these critical areas.

The Intercollegiate Athletics Program includes 22 varsity sports, 10 for men and 12 for women, including nationally-recognized programs in football, baseball, men's and women's basketball, men's and women's lacrosse, volleyball, and field hockey. All programs compete for overall athletic excellence in the Colonial Athletic Association (CAA).

Delaware competes for athletic championships in NCAA Division I. The football program competes in the Division I Football Championship Sub-division. Delaware also competes for regional championships as a member of the ECAC and IC4A. In recent years, numerous University student-athletes have been named CoSida Academic All-Americans and nine have been awarded the prestigious NCAA Post-Graduate Scholarship.

The University's athletics facilities are among the finest in the East with the 22,000-seat lighted Tubby Raymond Field at Delaware Stadium (football, men's & women's lacrosse); the Bob Carpenter Center, which is a 5,000-seat multi-purpose building that houses the Blue Hen basketball (men's and women's - Acierno Arena) and football programs, as well as some Athletics administrative offices; the 2,000-seat lighted Fred P. Rullo Stadium, an artificial turf facility with two full practice fields that overlap a game field (field hockey); the Delaware Field

House, which includes one of the region's finest indoor track facilities (women's indoor track & field) and the lighted outdoor Delaware Field House Courts (men's and women's tennis); newly renovated Delaware Softball Stadium (softball); Bob Hannah Stadium (baseball); a lighted all-weather outdoor track (men's and women's outdoor track & field) surrounding a grass field (men's and women's soccer); several other game and practice fields and Carpenter Sports Building which is home to Barbara Viera Court (volleyball) and the Harry W. Rawstrom Natatorium (men's and women's swimming and diving). Cross country (men's and women's) competes at White Clay Creek State Park, men's golf competes on several local golf courses and women's rowing takes place on the Christina River in Wilmington, DE.

For more information, visit [www.bluehens.com](http://www.bluehens.com).

### **The Sporting Life**

The Recreation Services Program contributes to the individual's overall educational experience by offering opportunities for participation in club and recreational sports, fitness programs and leisure activities. These opportunities are primarily focused on the university's student population while also serving the campus and surrounding communities. The mission of Recreation Services is realized by:

The mission of Recreation Services is realized by:

- Offering structured competitive opportunities in a variety of individual and team sports.
- Providing access to facilities and equipment for informal participation.
- Offering structured and non-structured activities for improving and maintaining physical fitness and the development of lifetime leisure activities.

For complete information, see [www.udel.edu/recreation](http://www.udel.edu/recreation).

### **OPEN RECREATION**

Carpenter Sports Building (CSB) is open for recreational use Monday through Thursday from 6:45 AM to 11:00 PM (closes at 9:00 PM on Fridays), on Saturday from 10:00 AM to 8:00 PM and Sunday from 12:00 noon to 10:00 PM. Facilities available include an indoor swimming pool, racquetball courts, a squash court, basketball courts, volleyball/badminton courts, student fitness center (Hen House), Employee Fitness Center, and indoor rock climbing wall. A

valid University of Delaware ID card is required to gain entrance to the building. For hours of specific facilities, call (302) 831-2264. A valid University of Delaware ID card is required to gain entrance to the building.

### **INTRAMURAL/EXTRAMURAL PROGRAMS**

The University provides an extensive co-educational intramural program. Intramural sports are those played on the University campus among students, faculty and staff. There are over 30 sports offered throughout the school year. Teams may represent dorms, clubs, fraternities, sororities, or simply a group of friends. Leagues and tournaments are established for men's, women's and coed divisions on three levels of competition and registration is ongoing throughout the year. Additionally there are some extramural opportunities allowing UD teams to compete against other institutions. For more information call (302) 831-2539, stop in 134 CSB, or visit [www.udel.edu/recreation/int](http://www.udel.edu/recreation/int).

### **FITNESS**

The Fitness Program operates four facilities on campus. The Hen House located in Carpenter Sports Building is the largest comprehensive facility and contains a full array of both aerobic and strength training equipment. The Harrington Fitness Center on east campus and the new Independence Fitness Center on north campus are also fully equipped facilities with various strength and cardiovascular equipment. The Employee Fitness Center is located in Carpenter Sports Building. The Fitness program also offers a full schedule of fitness classes including Kickboxing, Step, Zumba, Pilates, Yoga, Spinning, Body Blast, and more. Check out [www.udel.edu/fitness](http://www.udel.edu/fitness) or call (302) 831-1580 for more information.

### **OUTDOOR RECREATION**

The Outdoor Recreation Program includes an indoor climbing wall located in Carpenter Sports Building with supervised instruction and practice to develop and improve climbing skills. These programs are scheduled to provide students with a safe learning experience while fostering an awareness and appreciation for the natural environment. The program also has some outdoor equipment to rent (tents, backpacks, etc.) to students and staff.

## CLUB SPORTS

Recreation Services supports a wide variety of student-run competitive club sports. Club sports exist to provide students the opportunity to engage in high level competition while gaining experience in management, leadership, and organization. The students elect officers, create their own competitive schedules, organize travel arrangements, budget and plan financial transactions, establish their own bylaws and attend meetings held by the Office of Club Sports. The students are the club, but work in conjunction with the Director of Club Sports and adhere to specific rules and regulations of the University. Currently, the University sponsors 32 club sport programs.

If you are interested in club sports, visit our web site at [www.udel.edu/clubsports](http://www.udel.edu/clubsports), or call (302) 831-2259. Helping You Stay Safe And Sound

The administrative office responsible for police and security services on the campuses of the University of Delaware is the Department of Public Safety. Public Safety staff provide 24-hour-a-day response to reports of on-campus emergencies and criminal actions. Reports of emergencies or requests for assistance may be communicated directly over more than 200 "dial-free" campus emergency telephones, or by calling the University Police emergency number: 911.

The Police Division of the Department of Public Safety is staffed by men and women who have met the police training certification requirements of the State of Delaware and who exercise full law enforcement authority on the campus and contiguous streets. Staff in the Security Division receive departmental training and assist the University Police by performing non-law enforcement duties.

The most recent annual report of campus crime statistics is available, upon request, from the Department of Public Safety, University of Delaware, Newark, DE 19716, phone (302) 831-2224 or visit [www.udel.edu/PublicSafety/crimestats.htm](http://www.udel.edu/PublicSafety/crimestats.htm). Your Car And Our Campus

University personnel (students, faculty, staff, and visitors) are extended the privilege of operating and parking motor vehicles on campus only in accordance with the conditions stated in the publication Motor Vehicle Regulations. Copies of these regulations are available online and from

Parking Services of the Office of Supporting Services. All vehicles parked on campus (other than in the visitors' lots, garages, or at activated meters) must be registered with Parking Services and display a current parking permit. This requirement is in force at all times throughout the year.

Car pools are encouraged and car pool permits are available at special rates. Assignment of parking lot privileges will be made at the time of vehicle registration, consistent with the regulations currently in effect.

The University reserves the right to remove and store any vehicle parked on its property that lacks registration or is otherwise in violation of the motor vehicle regulations at the expense of the owner. University parking privileges are subject to revocation for repeated violations of the motor vehicle regulations.

For more information, call (302) 831-1184 or visit [www.udel.edu/parking/IdentifyYourself](http://www.udel.edu/parking/IdentifyYourself)

Students are required to carry their UD Identification Card. Examples of privileges that MAY be accessed with the ID Card are: UD1 FLEX account, student banking services with PNC Bank, sporting events, the library, and dining facilities. Access to privileges is determined by registration status and account balances.

New and replacement cards can be obtained at the ID Card office located in the Student Services Building, Lovett Avenue, Newark, phone (302) 831-2759. For students' protection, it is necessary to present a picture ID for positive identification before replacing/obtaining an ID Card. A charge is applied for replacement cards. Lost or stolen cards should be reported immediately, 24 hours a day, by dialing (302) 831-2273.

For more information, visit [www.udel.edu/registrar/idcard.html](http://www.udel.edu/registrar/idcard.html)

## Majors, Minors and University Breadth Requirements

### Majors, Minors and University Breadth Requirements

#### University Breadth Requirements

A college education requires some breadth of knowledge across diverse fields and perspectives. With this in mind, all students are required to complete a minimum of 12 credits from the list of University breadth courses. This includes 3 credits from each of the following categories. Students must earn a minimum grade of C- in each course to meet this requirement:

#### Creative Arts and Humanities (3 credits)

These courses provide students with an understanding and appreciation of the visual and performing arts, of aesthetic forms, designs, or craftsmanship, or of literary, philosophical, and intellectual traditions. Courses may focus on a single aesthetic form or intellectual tradition, or cross-cultural comparisons.

#### History and Cultural Change (3 credits)

These courses provide students with an understanding of the sources and forces of historical changes in ideas, beliefs, institutions, and cultures. Courses may address social, cultural, intellectual, economic, technological, artistic, scientific, and political development, changes in a discipline, or globalization and its effects.

#### Social and Behavioral Sciences (3 credits)

These courses provide students with an understanding of the behavior of individuals and social groups in the context of their human and natural environments. Courses emphasize the empirical findings, applications, and methods of the social and behavioral sciences.

#### Mathematics, Natural Sciences and Technology (3 credits)

These courses provide students with an understanding of fundamental and/or applied concepts and phenomena from mathematics, logic, natural or physical sciences, and technology including quantitative reasoning and methods used to approach and solve problems.

Note that students must take breadth courses from four different subject areas (e.g. the four-letter subject code ACCT, HIST, etc.). Students may not use a course that is cross-listed with a subject area that has already been used to satisfy a university breadth requirement. Students enrolled in a single major may not satisfy the

breadth requirement with courses in the subject area of that major (e.g. chemistry majors may not use CHEM courses). Students who are enrolled in more than one major or degree are allowed to meet the University breadth requirement by taking approved breadth courses from within the subject areas of their majors. The requirement may be fulfilled through a course or courses taken to complete other degree requirements, subject to the limitations above.

#### Creative Arts and Humanities

- ANTH 201 VISUALIZING HUMANITY: ETHNOGRAPHIC FILM
- ANTH 205 ANTHROPOLOGY AND HUMAN NATURE (X-LISTED W/CGSC 205)
- ANTH 216 INTRODUCTION TO MATERIAL CULTURE STUDIES (X-LISTED W/MCST 216)
- ANTH 227 AMERICAN CULTURE
- ANTH 239 ARTS AND CRAFTS OF NATIVE NORTH AMERICA
- ANTH 251 INTRODUCTION TO THE ETHNIC ARTS
- ANTH 328 MAYAN ART AND ARCHITECTURE
- ANTH 338 ARTS AND CRAFTS OF NATIVE SOUTH AMERICA
- ANTH 381 VISIONS OF NATIVE AMERICANS
- ANTH 457 SURVEY OF AFRICAN ART (X-LISTED W/ ARTH 457)
  
- ART 129 DESIGN AND VISUAL ART
- ART 138 PAINTING APPROACHES
- ART 180 PHOTOGRAPHIC APPROACHES
- ART 204 MEDIA/DESIGN/CULTURE
- ART 212 DRAWING APPROACHES
- ART 231 INTRODUCTION TO PAINTING
- ART 243 INTRODUCTION TO PRINTMAKING
- ART 246 SCREENPRINTING
- ART 250 INTRODUCTION TO SCULPTURE
- ART 280 INTRODUCTION TO PHOTO AND VIDEO
- ART 290 INTRODUCTION TO CERAMICS
  
- ARTH 101 VISUAL CULTURE
- ARTH 150 MONUMENTS AND METHOD IN THE HISTORY OF ART
- ARTH 151 MYTH, RELIGION, AND ART
- ARTH 153 INTRO TO ART HISTORY I
- ARTH 154 INTRO TO ART HISTORY II
- ARTH 162 HISTORY OF ARCHITECTURE
- ARTH 203 ART OF THE AFRICAN DIASPORA
- ARTH 213 ART OF THE NORTHERN RENAISSANCE
- ARTH 219 ART OF THE ITALIAN RENAISSANCE
- ARTH 237 ART OF TIBET
- ARTH 243 AMERICAN DECORATIVE ARTS, 1700-1900 (X-LISTED W/ MCST 243)
- ARTH 302 PRINTS AND SOCIETY

ARTH 307	SEURATTO MATISSE:ART IN FRANCE	EDUC 485	MULTIMEDIA LITERACY (x-LISTED W/ COMM 486)
ARTH 319	PHOTOGRAPHY IN THE US	ENGL 101	TOOLS OF TEXTUAL ANALYSIS
ARTH 457	SURVEY OF AFRICAN ART (X-LISTED W/ ANTH 457)	ENGL 202	BIBLICAL AND CLASSICAL LITERATURE (X-LISTED W/JWST 202)
BAMS 206	SURVEY OF AFRO-AMERICAN CULTURE	ENGL 207	INTRO TO POETRY
BAMS 327	RACE, GENDER, SCIENCE (X-LISTED W/CGSC 327, PHIL 327, WOMS 327)	ENGL 208	INTRO TO DRAMA
BAMS 373	PSYCHOSOCIAL ELEMENTS OF HIP-HOP IN THE BLACK COMMUNITY	ENGL 209	INTRO TO THE NOVEL
CGSC 205	ANTHROPOLOGY AND HUMAN NATURE (X-LISTED W/ANTH 205)	ENGL 210	INTRO TO SHORT STORY
CGSC 320	THEORY OF KNOWLEDGE (X-LISTED W/PHIL 320)	ENGL 217	INTRO TO FILM
CGSC 327	RACE, GENDER, SCIENCE (X-LISTED W/BAMS 327, PHIL 327, WOMS 327)	ENGL 280	APPROACHES TO LITERATURE
CGSC 421	PHILOSOPHY, BIOLOGY, SOCIETY (X-LISTED PHIL 421)	ENGL 284	SHAKESPEARE FOR NON-MAJORS
CGSC 450	RECENT TOPICS IN PHILOSOPHY OF MIND (X-LISTED W/PHIL 450)	ENGL 285	INTRO TO POETRY FOR NON-MAJORS
CISC 355	COMPUTERS, ETHICS, AND SOCIETY	ENGL 286	INTRO TO DRAMA FOR NON-MAJORS
COMM 486	Multimedia Literacy (x-LISTED W/ EDUC 485)	ENGL 287	INTRO TO SHORT STORY FOR NON-MAJORS
CMLT 320	VARYING AUTHORS AND GENRES (X-LISTED W/FLLT 320)	ENGL 288	INTRO TO THE NOVEL FOR NON-MAJORS
CRJU 335	CRIME AND JUSTICE IN FILM AND LITERATURE	ENGL 290	STUDIES IN LITERATURE FOR NON-MAJORS
CRJU 336	THE DETECTIVE IN FILM AND FICTION	ENGL 320	THE BIBLE AS LITERATURE
DANC 101	INTRODUCTION TO THE ART OF DANCE	ENGL 324	SHAKESPEARE
DANC 202	BEGINNING BALLET	ENGL 348	CONTEMPORARY JEWISH-AMERICAN LITERATURE (X-LISTED W/JWST 348)
DANC 203	BEGINNING MODERN DANCE	ENGL 350	STUDIES IN JEWISH LITERATURE (X-LISTED W/JWST 349)
DANC 204	BEGINNING JAZZ DANCE	ENGL 365	STUDIES IN LITERARY GENRES, TYPES, AND MOVEMENTS (X-LISTED W/JWST 365)
DANC 206	DANCE IN CULTURE AND SOCIETY	ENGL 380	WOMEN WRITERS
DANC 207	DANCE IMPROVISATION	FLLT 202	BIBLICAL & CLASSICAL LITERATURE
DANC 208	DANCE COMPOSITION I	FLLT 316	CLASSICAL MYTHOLOGY: GODS, HEROES, AND MONSTERS
DANC 302	INTERMEDIATE BALLET	FLLT 319	FRENCH LITERATURE IN TRANSLATION (X-LISTED W/ WOMS 319)
DANC 303	INTERMEDIATE MODERN DANCE	FLLT 320	VARYING AUTHORS AND GENRES
DANC 304	INTERMEDIATE JAZZ DANCE	FLLT 321	ANTI-HEROES IN CHINESE LITERATURE
DANC 305	HIP HOP	FLLT 322	TOPICS: CLASSICAL LITERATURE IN TRANSLATION (X-LISTED W/ CMLT 322)
DANC 306	MUSICAL THEATRE STYLES	FLLT 326	HISPANIC LITERATURE IN TRANSLATION
DANC 307	ETHNIC DANCE STYLES	FLLT 327	TOPICS: RUSSIAN LITERATURE IN TRANSLATION
DANC 309	REPERTORY	FLLT 328	TOPICS: JAPANESE LITERATURE IN TRANSLATION
DANC 310	METHODS OF TEACHING DANCE	FLLT 329	TOPICS: ITALIAN LITERATURE IN TRANSLATION
DANC 311	DANCE, DRAMA, AND LEARNING	FLLT 331	INTRODUCTION TO CHINESE FILMS
DANC 312	THE BODY AND MOTION IN DANCE	FLLT 337	BRAZIL THROUGH FILM
EDUC 240	LEGAL AND ETHICAL ISSUES IN AMERICAN EDUCATION	FLLT 338	LIGHT AND SHADOW: JAPANESE
EDUC 470	TOPICS IN EDUCATION		

FILMS

FLLT 380 JAPANESE CULTURE IN TRANSLATION

FLLT 436 POLITICS AND LITERATURE (X-LISTED W/POSC 436, WOMS 436)

FREN 211 FRENCH READING AND COMPOSITION

GEOG 203 INTROTO CULTURAL GEOGRAPHY

GEOG 345 CULTURAL GEOGRAPHY

GEOG 346 URBAN CULTURAL GEOGRAPHY

GREK 301 ANCIENT PROSE: ADVANCED INTERMEDIATE GREEK

GREK 302 ANCIENT POETRY: ADVANCED INTERMEDIATE GREEK

GRMN 211 GERMAN READING AND COMPOSITION: SHORT FICTION

HIST 216 INTRODUCTONTO MATERIAL CULTURE STUDIES

HLTH 241 ETHICAL ASPECTS OF HEALTH CARE

ITAL 211 ITALIAN READING AND COMPOSITION: SHORT FICTION

ITAL 212 ITALIAN READING AND COMPOSITION: DRAMA AND PROSE

JAPN 204 THE ART OF JAPANESE CALLIGRAPHY

JWST 202 BIBLICAL AND CLASSICAL LITERATURE (X-LISTED W/ ENGL 202)

JWST 208 INTROTO JEWISH PHILOSOPHY X-LISTED W/ PHIL 208)

JWST 348 CONTEMPORARY JEWISH AMERICAN LITERATURE (X-LISTED W/ ENGL 348)

JWST 350 STUDIES IN JEWISH LITERATURE (X-LISTED W/ENGL 350)

JWST 365-STUDIES IN LITERARY GENRES, TYPES, AND MOVEMENTS (X-LISTED W/ENGL 365)

LATN 301 ADVANCED INTERMEDIATE LATIN PROSE

LATN 302 ADVANCED INTERMEDIATE LATIN POETRY

MCST 243 AMERICAN DECORATIVE ARTS, 1700-1900 (X-LISTED W/ARTH 243)

MUSC 101 APPRECIATION OF MUSIC

MUSC 102 APPRECIATION OF MUSIC

MUSC 103 INTRODUCTIONTO ITALIAN OPERA

MUSC 104 INTRODUCTIONTO OPERA

MUSC 105 FUNDAMENTALS OF MUSIC I

MUSC 106 FUNDAMENTALS OF MUSIC II

MUSC 108 UNIVERSITY SINGERS

MUSC 109 SCHOLA CANTORUM

MUSC 110 CHORALE

MUSC 111 CONCERT CHOIR

MUSC 112 UNIVERSITY STRINGS

MUSC 113 MARCHING BAND

MUSC 114 SYMPHONIC BAND

MUSC 115 WIND ENSEMBLE

MUSC 116 JAZZ ENSEMBLE

MUSC 117 SYMPHONY ORCHESTRA

MUSC 118 PERCUSSION ENSEMBLE

MUSC 120 PEP BAND

MUSC 123 STEEL BAND

MUSC 124 ADVANCED STEEL BAND

MUSC 125 COLLEGIUM MUSICUM

MUSC 126 CHAMBER ORCHESTRA

MUSC 150 FRESHMAN HONORS PRIVATE STUDY

MUSC 177 CLASS GUITAR I

MUSC 178 CLASS GUITAR II

MUSC 179 ORGAN CLASS

MUSC 181 PRIVATE STUDY FOR APPLIED JAZZ STYLES ANDTECHNIQUES I

MUSC 182 PRIVATE STUDY FOR APPLIED JAZZ STYLES ANDTECHNIQUES II

MUSC 197 JAZZ HARMONY

MUSC 209 HISTORY OF SPANISH MUSIC

MUSC 213 FRENCH MUSICAL CULTURE

MUSC 281 PRIVATE STUDY FOR APPLIED JAZZ STYLES ANDTECHNIQUES III

MUSC 310 CHURCHES AND CATHEDRALS OF LONDON

PHIL 100 PHILOSOPHIES OF LIFE

PHIL 102 INTROTO PHILOSOPHY

PHIL 105 CRITICALTHINKING

PHIL 125 TOPICS: PHILOSOPHY IN POPULAR CULTURE

PHIL 200 BUSINESS ETHICS

PHIL 201 SOCIAL AND POLITICAL PHILOSOPHY

PHIL 202 CONTEMPORARY MORAL PROBLEMS

PHIL 203 ETHICS

PHIL 204 WORLD RELIGIONS

PHIL 208 INTROTO JEWISH PHILOSOPHY (X-LISTED W/ JWST 208)

PHIL 209 PHILOSOPHY OF RELIGION

PHIL 216 INTROTO FEMINISTTHEORY

PHIL 241 ETHICAL ISSUES IN HEALTHCARE

PHIL 244 PHILOSOPHY OF ART

PHIL 246 PHILOSOPHICAL PERSPECTIVES OF MEDICINE

PHIL 306 PHILOSOPHY OF SCIENCE

PHIL 307 BLACKTHOUGHT AND PHILOSOPHY

PHIL 308 TOPICS IN JEWISHTHEOLOGY

PHIL 309 INDIAN RELIGION AND PHILOSOPHY

PHIL 310 CHINESE RELIGION AND PHILOSOPHY  
 PHIL 313 KILLING AND LETTING DIE  
 PHIL 315 METAPHYSICS  
 PHIL 316 TIMETRAVEL  
 PHIL 317 AMERICAN PHILOSOPHY  
 PHIL 320 THEORY OF KNOWLEDGE (X-LISTED  
 W/CGSC 320)  
 PHIL 322 EXISTENTIALISM  
 PHIL 327 RACE, GENDER, SCIENCE (X-LISTED  
 W/CGSC 327, BAMS 327, WOMS 327)  
 PHIL 340 CROSS CULTURAL ENVIRONMENTAL  
 ETHICS  
 PHIL 341 ETHICS OF ENGINEERING  
 PROFESSION  
 PHIL 344 SCIENCE AND RELIGION  
 PHIL 389 TOPICS: WOMEN AND HEALTH  
 ISSUES  
 PHIL 421 PHILOSOPHY, BIOLOGY, SOCIETY  
 PHIL 448 ENVIRONMENTAL ETHICS  
 PHIL 450 RECENT TOPICS IN PHILOSOPHY OF  
 MIND (X-LISTED W/CGSC 450)  
  
 PLSC 103 LANDSCAPE AND FIELD SKETCHING  
 PLSC 232 BASIC LANDSCAPE DESIGN  
  
 POSC 436 POLITICS AND LITERATURE  
 (X-LISTED W/ FLLT 436, WOMS 436)  
  
 RUSS 211 RUSSIAN READING AND  
 COMPOSITION: SHORT FICTION  
  
 SOCI 220 SOCIOLOGY OF POPULAR CULTURE  
 SOCI 350 SOCIAL INEQUALITY AND FILM  
  
 THEA 102 INTRO TO PERFORMANCE  
 THEA 104 INTRO TO THEATRE AND DRAMA  
 THEA 106 THEATRICAL EXPERIENCE ABROAD  
 THEA 200 INTRO TO THEATRE PRODUCTION  
 THEA 202 INTRO TO THEATRE DESIGN  
 THEA 203 INTRO TO COSTUMING  
 THEA 204 INTRO TO VOICE AND SPEECH  
 THEA 205 INTRO TO STAGE MOVEMENT  
 THEA 206 INTRO TO DANCE  
 THEA 226 FUNDAMENTALS OF ACTING I  
 THEA 227 FUNDAMENTALS OF ACTING II  
 THEA 236 FUNDAMENTALS OF JAZZ DANCE  
 THEA 242 PAGE TO STAGE: MAKING THEATRE  
 THEA 300 FUNDAMENTALS OF STAGECRAFT  
 THEA 301 FUNDAMENTALS OF PROPERTIES  
 CONST  
 THEA 302 FUNDAMENTALS OF STAGE  
 LIGHTING  
 THEA 303 FUNDAMENTALS OF SCENE  
 PAINTING  
 THEA 304 FUNDAMENTALS OF AUDIO FOR  
 THEATRE  
 THEA 305 FUNDAMENTALS OF COSTUME  
 CONSTRUCTION  
 THEA 306 FUNDAMENTALS OF

PATTERNMAKING  
 THEA 307 FUNDAMENTALS OF DRAPING FOR  
 STAGE  
 THEA 308 FUNDAMENTALS OF COSTUME  
 CRAFTS  
 THEA 309 FUNDAMENTALS OF STAGE  
 MANAGEMENT  
 THEA 310 FUNDAMENTALS OF MASKMAKING  
 THEA 311 FUNDAMENTALS OF SCENE DESIGN  
 THEA 340 AFRICAN AMERICAN THEATRE  
 THEA 360 FUNDAMENTALS OF ORAL  
 INTERPRETATION  
 THEA 410 FUNDAMENTALS OF DRAMATURGY  
 THEA 420 FUNDAMENTALS OF STAGE  
 DIRECTING  
  
 WOMS 205 WOMEN IN THE ARTS AND  
 HUMANITIES  
 WOMS 319 FRENCH LITERATURE IN  
 TRANSLATION (X-LISTED W/ FLLT  
 319)  
 WOMS 326 HISPANIC LITERATURE IN  
 TRANSLATION (X-LISTED W/ FLLT  
 326)  
 WOMS 327 RACE, GENDER, SCIENCE  
 (X-LISTED W/CGSC 327, PHIL 327,  
 BAMS 327)  
 WOMS 332 WOMEN, RACE, AND ETHNICITY  
 WOMS 336 FEMINIST CULTURAL STUDIES  
 WOMS 436 POLITICS AND LITERATURE  
 (X-LISTED W/ POSC 436, FLLT 436)

### **History and Cultural Change**

ANTH 101 INTRODUCTION TO SOCIAL AND  
 CULTURAL ANTHROPOLOGY  
 ANTH 105 INTRODUCTION TO HISTORICAL  
 ARCHAEOLOGY  
 ANTH 210 PEOPLES AND CULTURES OF  
 SOUTHEAST ASIA  
 ANTH 211 PEOPLES AND CULTURES OF EAST  
 ASIA  
 ANTH 212 PEOPLES AND CULTURES OF THE  
 MUSLIM WORLD  
 ANTH 225 PEASANT SOCIETIES  
 ANTH 228 PEOPLES AND CULTURES OF THE  
 SOUTHWEST  
 ANTH 261 PEOPLES AND CULTURES OF THE  
 MIDDLE EAST (X-LISTED W/JWST  
 261)  
 ANTH 265 HIGH CIVILIZATIONS OF THE  
 AMERICAS  
 ANTH 269 EARLY CIVILIZATIONS OF THE OLD  
 WORLD  
 ANTH 275 DELAWARE PREHISTORIC  
 ARCHAEOLOGY  
 ANTH 278 HISTORIC CULTURES OF THE MID-  
 ATLANTIC REGION (X-LISTED HIST  
 278)

ANTH 312	ASIAN WOMEN IN THE GLOBALIZED WORKPLACE	ARTH 311	RENAISSANCE WOMEN, SOCIETY, AND THE ARTS (X-LISTED W/ WOMS 311)
ANTH 314	IMMIGRANT ISLAM: THE MUSLIM DIASPORA IN THE WEST	ARTH 318	HISTORY OF PHOTOGRAPHY
ANTH 323	PREHISTORY OF SOUTH AMERICA	ARTH 322	INTRO TO HISTORIC PRESERVATION
ANTH 325	PEOPLES OF EUROPE	BAMS 110	INTRO TO BLACK AMERICAN STUDIES
ANTH 330	DEVELOPMENT AND UNDERDEVELOPMENT	BAMS 134	HISTORY OF AFRICA (X-LISTED W/ HIST 134)
ANTH 333	PEOPLES OF AFRICA	BAMS 203	ART, POWER, AND ARCHITECTURE IN AFRICA (X-LISTED WITH ARTH 204)
ANTH 342	ISSUES IN AMERICAN CULTURE: ARCHAEOLOGICAL PERSPECTIVES	BAMS 304	HISTORY OF BLACK AMERICANS TO THE CIVIL WAR (X-LISTED W/HIST 325)
ANTH 351	RACE AND ETHNICITY IN LATIN AMERICA	BAMS 306	HISTORY OF BLACK AMERICANS SINCE THE CIVIL WAR (X-LISTED W/ HIST 326)
ANTH 360	AMERICAN ANABAPTISTS	BAMS 320	SLAVE TESTIMONY AS HISTORICAL ARTIFACT (X-LISTED W/HIST 320)
ANTH 375	PEOPLES AND CULTURES OF MODERN LATIN AMERICA	BAMS 331	HISTORY OF CARIBBEAN I (X-LISTED W/HIST 331)
ANTH 380	PEOPLES AND CULTURES OF MEXICO AND CENTRAL AMERICA	BAMS 332	HISTORY OF CARIBBEAN II (X-LISTED W/HIST 332)
ANTH 385	HISTORICAL ARCHAEOLOGY OF AMERICAN BATTLEFIELDS	BAMS 334	AFRICAN AMERICAN WOMEN'S HISTORY (X-LISTED W/HIST 334, WOMS 334)
ARTH 156	ROME: FROM CAESAR TO FELLINI	BAMS 363	HISTORY OF BLACKS IN THE AMERICAN WEST (X-LISTED W/ HIST 333)
ARTH 158	RULERS' IMAGES: ANTIQUITY TO THE PRESENT	CHEM 410	HISTORY OF CHEMISTRY
ARTH 163	ARCHITECTURE IN GLOBAL CONTEXT	CMLT 330	VARYING AUTHORS, THEMES, AND MOVEMENTS (X-LISTED WOMS 330/ FLLT 330)
ARTH 204	ART, POWER, AND ARCHITECTURE IN AFRICA (X-LISTED WITH BAMS 203)	CRJU 312	HISTORY OF CRIME AND CRIMINAL JUSTICE (X-LISTED W/HIST 312)
ARTH 206	INTRO TO ART AND ARCHITECTURE IN AFRICA	CRJU 322	CROWDS, CULTS, AND REVOLUTIONS (X-LISTED W/ SOCI 322)
ARTH 207	ART OF ANCIENT EGYPT AND THE NEAR EAST	CRJU 324	AMERICAN CONSTITUTIONAL HISTORY (X-LISTED W/HIST 324)
ARTH 208	GREEK AND ROMAN ART	CRJU 351	COMPARATIVE CRIMINAL JUSTICE SYSTEMS
ARTH 209	EARLY MEDIEVAL ART: 200-1000 AD	CRJU 352	INTERNATIONAL CRIMINAL JUSTICE
ARTH 210	LATER MEDIEVAL ART: 1000-1400 AD	CSCC 382	HISTORY OF WESTERN MEDICINE (X-LISTED W/HIST 382)
ARTH 217	EARLY RENAISSANCE ART	ECON 315	ECONOMIC HISTORY OF COLONIAL AMERICA
ARTH 218	HIGH RENAISSANCE AND MANNERISM	ECON 316	ECONOMIC HISTORY OF THE US
ARTH 220	ITALIAN RENAISSANCE ARCHITECTURE	EDUC 247	HISTORY OF EDUCATION IN AMERICA
ARTH 222	BAROQUE ART		
ARTH 225	EIGHTEENTH CENTURY ART		
ARTH 227	MODERN ART I		
ARTH 228	MODERN ART II		
ARTH 230	AMERICAN ART: 1607-1865		
ARTH 231	AMERICAN ART: 1865-PRESENT		
ARTH 232	ART OF LATIN AMERICA		
ARTH 233	ART AND ARCHITECTURE IN CHINA		
ARTH 236	ARTS OF THE ISLAMIC WORLD		
ARTH 242	WOMAN AS IMAGE AND IMAGE MAKER (X-LISTED W/ WOMS 242)		
ARTH 245	THE AMERICAN HOME		
ARTH 299	MODERN ARCHITECTURE		
ARTH 303	ART OF THE SPANISH RENAISSANCE		
ARTH 304	NORTHERN BAROQUE ART		
ARTH 305	ITALIAN BAROQUE: METAPHOR & MARVEL		
ARTH 310	ROLE OF THE ARTIST IN SOCIETY		

ENGL 204 AMERICAN LITERATURE  
 ENGL 205 BRITISH LITERATURE TO 1660  
 ENGL 206 BRITISH LITERATURE 1660-PRESENT  
 ENGL 211 GREAT WRITERS OF THE WESTERN WORLD I  
 ENGL 212 GREAT WRITERS OF THE WESTERN WORLD II  
 ENGL 281 BRITISH LITERATURE TO 1660 FOR NON-MAJORS  
 ENGL 282 BRITISH LITERATURE 1660-PRESENT FOR NON-MAJORS  
 ENGL 283 AMERICAN LITERATURE FOR NON-MAJORS  
 ENGL 317 FILM HISTORY  
 ENGL 321 MEDIEVAL LITERATURE AND CULTURE  
 ENGL 330 THE DETECTIVE IN FILM AND FICTION (X-LISTED W/ CRJU 336)  
 ENGL 340 AMERICAN LITERATURE TO THE CIVIL WAR  
 ENGL 341 AMERICAN LITERATURE: CIVIL WAR TO WWII  
 ENGL 342 AMERICAN LITERATURE SINCE WWII  
 ENGL 344 AFRICAN AMERICAN LITERATURE I  
 ENGL 345 AFRICAN AMERICAN LITERATURE II  
 ENGL 349 INTRODUCTION TO JEWISH SOURCES (X-LISTED W/ JWST 349)  
  
 FASH 213 TWENTIETH CENTURY DESIGN: ETHNIC INFLUENCES  
 FASH 214 COSTUME HISTORY BEFORE 1600  
 FASH 224 CLOTHING DESIGN: 1600-EDWARDIAN  
  
 FLIT 330 VARYING AUTHORS, THEMES, AND MOVEMENTS (X-LISTED WOMS 330/ CMLT 330)  
 FLIT 345 MODERN ISRAEL: CULTURE AND IDENTITY (X-LISTED W/ JWST 345)  
 FLIT 375 TOPICS: RUSSIAN & SOVIET CULTURE IN TRANSLATION  
  
 FREN 207 THE CONTEMPORARY CARIBBEAN WORLD: FRENCH CARIBBEAN PAST AND PRESENT APPROVED  
  
 GEOG 226 GEOGRAPHY OF LATIN AMERICA  
 GEOG 310 SOCIAL GEOGRAPHY  
  
 GRMN 208 CONTEMPORARY GERMANY  
 GRMN 255 GERMANY IN THE NEWS  
  
 HEBR 209 CONTEMPORARY ISRAEL THROUGH FILM  
  
 HIST 101 WESTERN CIVILIZATION TO 1648  
 HIST 102 WESTERN CIVILIZATION: 1648 TO THE PRESENT  
 HIST 103 WORLD HISTORY I  
  
 HIST 104 WORLD HISTORY II  
 HIST 130 ISLAMIC NEAR EAST: 600-1500  
 HIST 131 ISLAMIC NEAR EAST: 1500-PRESENT  
 HIST 134 HISTORY OF AFRICA (X-LISTED W/ BAMS 134)  
 HIST 135 INTRODUCTION TO LATIN AMERICAN HISTORY  
 HIST 136 TOPICS IN EAST ASIA IN FILM (1-CREDIT COURSE)  
 HIST 137 EAST ASIAN CIVILIZATION: CHINA  
 HIST 138 EAST ASIAN CIVILIZATION: JAPAN  
 HIST 200 HISTORY AND GOVERNMENT OF DELAWARE  
 HIST 201 INTRODUCTION TO GLOBAL ISLAM (X-LISTED WITH POSC 201)  
 HIST 205 US HISTORY I  
 HIST 206 US HISTORY II  
 HIST 210 INTRODUCTION TO MILITARY HISTORY  
 HIST 220 AMERICAN CIVIL RIGHTS MOVEMENT  
 HIST 221 FILM AND AMERICAN SOCIETY  
 HIST 241 HISTORY OF CHRISTIANITY TO 1300  
 HIST 243 ANCIENT RELIGION AND CIVILIZATION  
 HIST 245 MEDIEVAL KINGS AND QUEENS  
 HIST 254 JEWISH HOLOCAUST: 1933-1945 (X-LISTED W/ JWST 254)  
 HIST 270 HISTORY OF MODERN ASIA  
 HIST 278 HISTORIC CULTURES OF THE MID-ATLANTIC REGION (x-listed with ANTH 278)  
 HIST 291 WOMEN'S HISTORY THROUGH FILM (X-LISTED WITH WOMS 291)  
 HIST 300 WOMEN IN AMERICAN HISTORY (X-LISTED W/ WOMS 300)  
 HIST 302 THE WORLD IN OUR TIME  
 HIST 307 THE US IN THE EARLY NATIONAL PERIOD  
 HIST 308 THE US IN THE ANTEBELLUM PERIOD  
 HIST 309 US BUSINESS AND POLITICAL ECONOMY  
 HIST 310 POSTWAR AMERICA I: 1945-1963  
 HIST 311 POSTWAR AMERICA II: 1963-PRESENT  
 HIST 312 HISTORY OF CRIME AND CRIMINAL JUSTICE (X-LISTED W/ CRJU 312)  
 HIST 313 THE US, 1877-1914  
 HIST 314 THE US, 1914-1945  
 HIST 317 BUYING IN: CONSUMER CAPITALISM IN THE US  
 HIST 318 COLONIAL AMERICA  
 HIST 319 REVOLUTIONARY AMERICA  
 HIST 320 SLAVE TESTIMONY AS HISTORICAL ARTIFACT (X-LISTED W/ BAMS 320)  
 HIST 321 CIVIL WAR AND RECONSTRUCTION  
 HIST 323 THE OLD SOUTH  
 HIST 324 AMERICAN CONSTITUTIONAL HISTORY (X-LISTED W/ CRJU 324)  
 HIST 325 HISTORY OF BLACK AMERICA TO THE CIVIL WAR (X-LISTED W/ BAMS 325)  
 HIST 326 HISTORY OF BLACK AMERICA SINCE THE CIVIL WAR (X-LISTED W/ BAMS

- 326)
- HIST 328 AMERICAN INDUSTRIAL SOCIETY FROM 1815-PRESENT
- HIST 330 PEASANTS AND REVOLUTION IN AFRICA
- HIST 331 HISTORY OF CARIBBEAN I (X-LISTED W/ BAMS 331)
- HIST 332 HISTORY OF CARIBBEAN II (X-LISTED W/ BAMS 332)
- HIST 333 HISTORY OF BLACKS IN THE AMERICAN WEST (X-LISTED W/ BAMS 363)
- HIST 334 AFRICAN AMERICAN WOMEN'S HISTORY (X-LISTED W/ BAMS/WOMS 334)
- HIST 338 GREEK-ROMAN SPORT RECREATION
- HIST 340 ANCIENT NEAR EAST AND GREECE
- HIST 341 ANCIENT ROME
- HIST 342 BARBARIAN EUROPE
- HIST 343 MEDIEVAL EUROPE: 1050-1350
- HIST 344 RENAISSANCE EUROPE
- HIST 345 REFORMATION EUROPE
- HIST 346 AGE OF LOUIS XIV
- HIST 348 HISTORY OF SPAIN: 1479-PRESENT
- HIST 349 MODERN LATIN AMERICA: 1800-PRESENT
- HIST 351 EUROPE IN CRISIS: 1919-1945
- HIST 352 CONTEMPORARY EUROPEAN SOCIETY
- HIST 353 MODERN GERMANY: 1770-1919
- HIST 354 GERMANY IN THE 20TH CENTURY: 1914-PRESENT
- HIST 355 EARLY MODERN INTELLECTUAL HISTORY
- HIST 356 MODERN EUROPEAN INTELLECTUAL HISTORY
- HIST 357 THE EUROPEAN CITY
- HIST 359 SOVIET UNION: 1917-1990
- HIST 361 20TH CENTURY FRANCE
- HIST 368 MODERN CHINA: 1600-1920
- HIST 369 CHINA SINCE 1900
- HIST 370 HISTORY OF MODERN JAPAN
- HIST 371 POSTWAR JAPAN
- HIST 372 JAPAN'S GLOBAL POP CULTURE
- HIST 373 MODERN IRELAND: 1660-PRESENT
- HIST 374 HISTORY OF ENGLAND TO 1715
- HIST 375 BRITAIN SINCE 1714
- HIST 376 ENGLAND: THE FORMATIVE YEARS, 1648-1798
- HIST 377 RADICALISM AND REVOLUTION: ISLAMIC MOVEMENT/MODERN MIDDLE EAST
- HIST 378 NATIONALISM IN THE MODERN MIDDLE EAST
- HIST 380 HISTORY OF THE ARAB-ISRAELI CONFLICT - (x-listd w/JWST 381)
- HIST 381 ISLAM AND THE WEST: THE HISTORY OF MUTUAL PERCEPTIONS
- HIST 382 HISTORY OF WESTERN MEDICINE (X-LISTED W/ CSCC 382)
- HIST 384 EARLY IRISH HISTORY: FROM STRONGBOW TO CROMWELL, 169-1659
- HIST 386 ASIAN AMERICA: CULTURE AND HISTORY
- HIST 387 HISTORY OF SEXUALITY IN THE US
- HIST 388 AMERICAN INDIAN HISTORY
- HIST 389 THE AMERICAN WEST
- HIST 390 AMERICAN INDIANS: THE SOUTHWEST
- HIST 393 HISTORY OF MODERN VIETNAM
- HIST 394 AFRICA SINCE 1960
- HIST 395 PAN-AFRICANISM
- HIST 397 HISTORY OF SOUTH AFRICA
- HIST 403 HISTORY, PHILOSOPHY, AND FUNCTION OF MUSEUMS (X-LISTED W/MSST 403)
- HIST 408 PUBLIC HISTORY: RESOURCES, RESEARCH, AND PRACTICE
- HIST 431 CARIBBEAN PLANTATION SOCIETY AND ECONOMY
- HIST 432 POST EMANCIPATION CARIBBEAN SOCIETIES
- ITAL 208 ITALY: PAST & PRESENT
- JWST 254 JEWISH HOLOCAUST (X-LISTED W/ HIST 254)
- JWST 261 PEOPLES AND CULTURES OF THE MIDDLE EAST (X-LISTED W/ ANTH 261)
- JWST 345 MODERN ISRAEL (X-LISTED W/ FLLT 345)
- JWST 349 INTRODUCTION TO JEWISH SOURCES (X-LISTED W/ ENGL 349)
- JWST 381 HISTORY OF THE ARAB-ISRAELI CONFLICT (X-LISTED W/ HIST 380)
- LEAD 101 GLOBAL CONTEXTS FOR LEADERSHIP
- LING 401 HISTORICAL LINGUISTICS
- MATH 308 HISTORICAL DEVELOPMENT OF MATHEMATICAL CONCEPTS AND IDEAS
- MSST 403 HISTORY, PHILOSOPHY, AND FUNCTION OF MUSEUMS (X-LISTED W/HIST 403)
- MUSC 107 HISTORY OF ROCK
- MUSC 205 MUSIC OF THE WORLD
- MUSC 206 MUSIC OF CHINA, KOREA AND JAPAN
- MUSC 207 HISTORY OF JAZZ
- MUSC 210 MUSIC OF BRITAIN
- MUSC 212 HISTORY OF LITURGY AND HYMNS
- MUSC 302 WOMEN IN MUSIC: AN ALTERNATE SURVEY (X-LISTED W/WOMS 302)
- MUSC 345 HISTORY OF THEATRE: AMERICAN MUSICAL THEATRE

PHIL 101 GREAT WESTERN PHILOSOPHERS  
 PHIL 301 ANCIENT PHILOSOPHY  
 PHIL 303 MODERN PHILOSOPHY  
 PHIL 304 19TH CENTURY PHILOSOPHY  
 PHIL 305 20TH CENTURY PHILOSOPHY  
 PHIL 311 EARLY MEDIEVAL PHILOSOPHY  
 PHIL 312 LATE MEDIEVAL PHILOSOPHY  
  
 PHYS 480 HISTORY OF PHYSICS  
  
 PLSC 100 PLANTS AND HUMAN CULTURE  
 PLSC 170 SOILS AND ENVIRONMENTAL  
 QUALITY  
 PLSC 202 HISTORY OF LANDSCAPE DESIGN  
  
 PORT 207 BRAZIL: PAST & PRESENT  
  
 POSC 201 INTRODUCTION TO GLOBAL ISLAM  
 (X-LISTED WITH HIST 201)  
 POSC 211 INTRODUCTION TO POLITICS IN  
 DEVELOPING COUNTRIES  
  
 PSYC 415 HISTORY OF PSYCHOLOGY  
 PSYC 420 MENTAL ILLNESS  
  
 SOCI 322 CROWDS, CULTS, AND  
 REVOLUTIONS (X-LISTED W/CRJU 322)  
  
 SPAN 207 CONTEMPORARY LATIN AMERICA I  
 SPAN 208 SPAIN: PAST & PRESENT  
 SPAN 307 CONTEMPORARY LATIN AMERICA II  
 SPAN 325 SPANISH CIVILIZATION AND  
 CULTURE  
 SPAN 326 LATIN AMERICAN CIVILIZATION AND  
 CULTURE  
  
 THEA 241 WESTERN THEATRE: LIVE ON STAGE  
 THEA 341 THEATRE/DRAMA: CLASSIC/  
 MEDIEVAL  
 THEA 342 THEATRE/DRAMA:  
 RENAISSANCE-1700  
 THEA 343 THEATRE/DRAMA: 1700-1900  
 THEA 344 THEATRE/DRAMA: 1900-PRESENT  
 THEA 345 THEATRE/DRAMA: AMERICAN  
 MUSICAL THEATRE  
  
 UAPP 220 CITIZENS, COMMUNITY, AND  
 CHANGE  
  
 WOMS 200 CULTURAL INTRODUCTION TO  
 SEXUALITIES AND GENDER STUDIES  
 WOMS 202 WOMEN'S STUDIES IN GLOBAL  
 CONTEXT  
 WOMS 210 WOMEN AND RELIGION  
 WOMS 242 WOMAN AS IMAGE AND  
 IMAGE MAKER (X-LISTED W/ ARTH  
 242)  
 WOMS 260 WOMEN: CULTURAL  
 REPRESENTATIONS

WOMS 291 WOMEN'S HISTORY THROUGH  
 FILM (1 CREDIT COURSE) X-LISTED  
 W/HIST 291  
 WOMS 300 WOMEN IN AMERICAN HISTORY  
 (X-LISTED W/ HIST 300)  
 WOMS 302 WOMEN IN MUSIC: AN ALTERNATE  
 SURVEY (X-LISTED W/MUSC 302)  
 WOMS 311 RENAISSANCE WOMEN, SOCIETY,  
 AND THE ARTS (X-LISTED W/ ARTH  
 311)  
 WOMS 324 FEMINISM AND SEXUALITIES  
 WOMS 330 VARYING AUTHORS, THEMES, AND  
 MOVEMENTS (X-LISTED CMLT330/  
 FLLT 330)  
 WOMS 334 AFRICAN AMERICAN WOMEN'S  
 HISTORY (X-LISTED W/HIST 334,  
 BAMS 334)

### **Social and Behavioral Sciences**

AGED 180 INTRODUCTION TO AGRICULTURAL  
 EDUCATION  
 AGED 280 FFA AND SUPERVISED  
 AGRICULTURAL EXPERIENCE  
 AGED 425/625 AGRICULTURAL LEADERSHIP:  
 TOLLS AND TECHNIQUES  
 AGED 430/630 WORKING WITH ADVISORY  
 COUNCILS  
 AGED 480/680 METHODS OF TEACHING  
 AGRICULTURAL EDUCATION I  
 AGED 481/681 METHODS OF TEACHING  
 AGRICULTURAL EDUCATION II  
  
 ANTH 103 INTRODUCTION TO PREHISTORIC  
 ARCHAEOLOGY  
 ANTH 218 SOLVING ARCHAEOLOGICAL  
 MYSTERIES  
 ANTH 222 TECHNOLOGY AND CULTURE  
 ANTH 223 FOOD, GENDER AND CULTURE  
 ANTH 229 INDIANS OF NORTH AMERICA  
 ANTH 230 PEOPLES OF THE WORLD  
 ANTH 235 ANTHROPOLOGY OF FOOD  
 ANTH 236 ANTHROPOLOGY OF SPORT  
 ANTH 245 CONTEMPORARY NATIVE  
 AMERICAN CULTURE ISSUES  
 ANTH 255 APPLIED ANTHROPOLOGY  
 ANTH 259 HUNTING SOCIETIES  
 ANTH 310 ASIAN WOMEN'S LIVES  
 ANTH 311 ANTHROPOLOGY OF TOURISM  
 ANTH 313 ANTHROPOLOGY OF ELITES: THE  
 NEW RICH IN ASIA  
 ANTH 316 ISLAM AND GENDER  
 ANTH 318 TRIBAL LIFEWAYS  
 ANTH 320 PREHISTORY OF NORTH AMERICA  
 ANTH 324 OLD WORLD ARCHAEOLOGY  
 ANTH 329 THE ARCHAEOLOGY OF  
 AGRICULTURE  
 ANTH 337 SOUTH AMERICAN INDIANS  
 ANTH 363 WOMEN IN CROSS-CULTURAL

	PERSPECTIVE		W/SOCI 303)
ANTH 370	CULTURE OF FOOD PRODUCTION AND ECONOMIC DEVELOPMENT	CRJU 304	CRIMINOLOGY (X-LISTED W/SOCI 304)
ANTH 379	HISTORICAL ARCHAEOLOGY OF EASTERN U.S. (X-LISTED W/HIST 379)	CRJU 345	SOCIOLOGY OF LAW (X-LISTED W/ SOCI 345)
ANTH 382	ANTHROPOLOGY AND BUSINESS	CRJU 409	DOMESTIC VIOLENCE SERVICES (X-LISTED W/HDFS 409)
ANTH 401	THE IDEA OF RACE		
ANTH 463	HISTORICAL ARCHAEOLOGY AND THE PUBLIC (X-LISTED W/HIST 463)	ECON 100	ECONOMIC ISSUES AND POLICIES
		ECON 151	INTROTO MICROECONOMICS: PRICES AND MARKETS
ART 215	SEEING AND BELIEVING	ECON 152	INTROTO MACROECONOMICS: THE NATL ECONOMY
BAMS 205	CONTEMPORARY AFRO-AMERICAN ISSUES	ECON 251	MANAGERIAL ECONOMICS
BAMS 350	RACE AND WORK IN THE US	ECON 300	INTERMEDIATE MICROECONOMIC THEORY
BAMS 381	UNDERSTANDING BLACK MEN IN THE STREETS AND IN PRISON	ECON 301	QUANTITATIVE MICROECONOMIC THEORY
		ECON 303	INTERMEDIATE MACROECONOMIC THEORY
BUAD 301	INTRODUCTION TO MARKETING	ECON 311	ECONOMICS OF DEVELOPING COUNTRIES
BUAD 309	MANAGEMENT AND ORGANIZATIONAL BEHAVIOR	ECON 332	ECONOMICS OF GOVERNMENT SPENDING AND TAXATION
CGSC 102	LANGUAGE, MIND AND SOCIETY (X-LISTED W/LING 102)	ECON 343	ENVIRONMENTAL ECONOMICS (X-LISTED W/FREC 343)
CGSC 170	INTRO TO COGNITIVE SCIENCE	ECON 350	ECONOMICS OF ENTREPRENEURSHIP
CGSC 330	PHILOSOPHY OF MIND (X-LISTED WITH PHIL 330)	ECON 360	GOVERNMENT REGULATION OF BUSINESS
CGSC 404	ANIMAL MINDS (X-LISTED W/PHIL 404)	ECON 381	ECONOMICS OF HUMAN RESOURCES
CGSC 410	EMBODIED COGNITION	ECON 385	WOMEN AND THE ECONOMY
CGSC 471	DISCOVERING HUMAN LANGUAGE (X-LISTED W/LING 471)	ECON 390	ECONOMICS OF HEALTHCARE
		ECON 393	URBAN ECONOMICS
COMM 200	TOPICS IN HUMAN COMMUNICATION SYSTEMS		
COMM 204	GENDER AND COMMUNICATION	EDUC 459	URBAN SCHOOLS IN URBAN LANDSCAPES
COMM 245	MASS COMMUNICATION AND CULTURE COMMUNICATION		
COMM 256	PRINCIPLES OF COMMUNICATION THEORY	ENEP 250	INTRODUCTION TO ENERGY POLICY
COMM 305	TOPICS IN COMMUNICATION AND POLITICS	ENEP 410	POLITICAL ECONOMY OF ENVIRONMENT
COMM 330	COMMUNICATION AND INTERPERSONAL BEHAVIOR COMMUNICATION	ENEP 424	SUSTAINABLE ENERGY POLICY AND PLANNING
COMM 341	THEORIES OF INTERPERSONAL COMMUNICATION	ENEP 425	ENERGY POLICY AND ADMINISTRATION
COMM 370	THEORIES OF MASS COMMUNICATION		
		ENGL 390	ENGLISH LINGUISTICS
CRJU 110	INTRODUCTION TO CRIMINAL JUSTICE	ENGL 394	ENGLISH LANGUAGE: RHETORICAL AND CLUTURAL CONTEXTS
CRJU 201	PROBLEMS OF LAW ENFORCEMENT		
CRJU 202	PROBLEMS OF CRIMINAL JUDICIARY	FLLT 203	LANGUAGES OF THE WORLD (X-LISTED W/LING 203)
CRJU 203	PROBLEMS OF CORRECTIONS		
CRJU 302	SOCIAL DEVIANCE (X-LISTED W/ SOCI 302)	FREC 100	SUSTAINABLE DEVELOPMENT
CRJU 303	JUVENILE DELINQUENCY (X-LISTED	FREC 150	ECONOMICS OF AGRICULTURE AND NATURAL RESOURCES
		FREC 212	FOOD RETAILING AND CONSUMER BEHAVIOR

FREC 305	MANAGEMENT AND LEADERSHIP DEVELOPMENT	HESC 401	FOUNDATIONS OF HUMAN SEXUALITY (X-LISTED W/ HDFS 401 AND WOMS 401)
FREC 316	ECONOMICS OF BIOTECHNOLOGY AND NEWTECHNOLOGIES	HESC 484	WOMEN IN SPORTS
FREC 343	ENVIRONMENTAL ECONOMICS (X-LISTED W/ECON 343)	HIST 329	INTERNATIONAL MIGRATION (X-LISTED W/POSC 329)
FREC 406	AGRICULTURAL AND NATURAL RESOURCE POLICY	HIST 379	HISTORICAL ARCHAEOLOGY OF EASTERN U.S. (X-LISTED W/ANTH 379)
FREC 409	RESEARCH METHODS II	HIST 463	HISTORICAL ARCHAEOLOGY AND THE PUBLIC (X-LISTED W/ANTH 463)
FREC 410	INTERNATIONAL AGRICULTURAL TRADE AND MARKETING	HLPR 211	INTRODUCTION TO PUBLIC HEALTH
FREC 450	TOPICS IN ENVIRONMENTAL LAW (X-LISTED W/ LEST 450)	HLPR 233	INTRODUCTION TO GLOBAL HEALTH
FREN 403	STRUCTURE OF FRENCH	JWST 360	SOCIOLOGY OF RELIGION (X-LISTED W/ SOCI 360)
GEOG 102	HUMAN GEOGRAPHY	LEAD 100	LEADERSHIP, INTEGRITY, AND CHANGE
GEOG 120	WORLD REGIONAL GEOGRAPHY	LEAD 200	THE LEADERSHIP CHALLENGE
GEOG 210	ECONOMIC GEOGRAPHY	LEAD 300	LEADERSHIP, CREATIVITY, AND INNOVATION
GEOG 235	CONSERVATION OF NATURAL RESOURCES	LEST450	TOPICS IN ENVIRONMENTAL LAW (X-LISTED W/ FREC 450)
GEOG 236	CONSERVATION: GLOBAL ISSUES	LING 101	INTRO TO LINGUISTICS
GEOG 240	ENVIRONMENT AND BEHAVIOR	LING 102	LANGUAGE, MIND AND SOCIETY (X-LISTED W/CGSC 102)
GEOG 315	NEWARK, DELAWARE: PEOPLE, POLITICS, AND PLACE	LING 203	LANGUAGES OF THE WORLD (X-LISTED W/FLLT 203)
GEOG 320	WATER AND SOCIETY	LING 222	LANGUAGE AND GENDER
GEOG 325	URBAN GEOGRAPHY	LING 265	STUDIES IN LANGUAGE
GEOG 329	INTERNATIONAL MIGRATION (X-LISTED W/ POSC 329, SOCI 329)	LING 390	ENGLISH LINGUISTICS
HDFS 201	LIFE SPAN DEVELOPMENT	LING 404	STRUCTURES OF LANGUAGE
HDFS 202	FOUNDATIONS OF FAMILY STUDIES	LING 471	DISCOVERING HUMAN LANGUAGE (X-LISTED W/CGSC 471)
HDFS 220	CHILD DEVELOPMENT I	MUSC 309	PATTERNS OF PATRONAGE
HDFS 221	CHILD DEVELOPMENT II	NTDT 301	CULTURAL PERSPECTIVES ON FOOD AND NUTRITION
HDFS 230	FAMILIES AND THEIR COMMUNITIES	NTDT 455	ISSUES IN INTERNATIONAL NUTRITION
HDFS 270	FAMILIES AND DEVELOPMENTAL DISABILITIES (X-LIST W/ SOCI 270)	PHIL 330	PHILOSOPHY OF MIND (X-LISTED W/ CGSC 330)
HDFS 271	ALCOHOL ISSUES AND COLLEGE STUDENTS	PHIL 404	ANIMAL MINDS (X-LISTED W/CGSC 404)
HDFS 329	ADOLESCENT DEVELOPMENT	POSC 150	AMERICAN POLITICAL SYSTEM
HDFS 330	MENTOR AND HELPING RELATIONSHIPS	POSC 211	INTRODUCTION TO POLITICS IN DEVELOPING COUNTRIES
HDFS 331	YOUTH AT RISK	POSC 240	INTRODUCTION TO INTERNATIONAL RELATIONS
HDFS 333	DEVELOPMENT OF HUMAN RELATIONSHIPS	POSC 329	INTERNATIONAL MIGRATION (X-LISTED W/ GEOG 329, SOCI 329)
HDFS 339	ADULT DEVELOPMENT AND AGING		
HDFS 401	FOUNDATIONS OF HUMAN SEXUALITY (X-LISTED W/ HESC 401 AND WOMS 401)		
HDFS 405	AGING AND THE FAMILY		
HDFS 409	DOMESTIC VIOLENCE SERVICES (X-LISTED W/CRJU 409)		
HDFS 410	THE HOSPITALIZED CHILD		
HDFS 427	PARENTING THROUGH THE LIFESPAN		
HESC 214	WELLNESS: A WAY OF LIFE		
HESC 226	SPORT, RECREATION, AND LEISURE ABROAD		
HESC 335	HEALTH AND AGING		

POSC 343 SOCIETY, POLITICS AND HEALTHCARE (X-LISTED W/SOCI 343)  
 PSYC 100 GENERAL PSYCHOLOGY  
 PSYC 105 POSITIVE PSYCHOLOGY  
 PSYC 301 PERSONALITY  
 PSYC 303 INTRO TO SOCIAL PSYCHOLOGY  
 PSYC 325 CHILD PSYCHOLOGY  
 PSYC 332 HEALTH PSYCHOLOGY  
 PSYC 333 PSYCHOLOGY OF WOMEN  
 PSYC 334 ABNORMAL PSYCHOLOGY  
 SOCI 201 INTRODUCTION TO SOCIOLOGY  
 SOCI 204 URBAN COMMUNITIES  
 SOCI 206 WOMEN AND WORK  
 SOCI 209 SOCIAL PROBLEMS  
 SOCI 213 MEN AND WOMEN IN AMERICAN SOCIETY  
 SOCI 215 RACE IN SOCIETY  
 SOCI 270 FAMILIES AND DEVELOPMENTAL DISABILITIES (X-LIST W/ HDFS 270)  
 SOCI 302 SOCIAL DEVIANCE (X-LISTED W/ CRJU 302)  
 SOCI 303 JUVENILE DELINQUENCY (X-LISTED W/CRJU 303)  
 SOCI 304 CRIMINOLOGY (X-LISTED W/CRJU 304)  
 SOCI 305 SOCIAL CLASS AND INEQUALITY  
 SOCI 308 THE FAMILY  
 SOCI 311 SOCIOLOGY OF HEALTH AND ILLNESS  
 SOCI 325 DISASTERS AND SOCIETY  
 SOCI 328 SOCIOLOGY OF WORK  
 SOCI 329 INTERNATIONAL MIGRATION (X-LISTED W/ GEOG 329, POSC 329)  
 SOCI 331 WORLD POPULATION: PROFILES AND TRENDS  
 SOCI 343 SOCIETY, POLITICS AND HEALTHCARE (X-LISTED W/POSC 343)  
 SOCI 345 SOCIOLOGY OF LAW (X-LISTED W/ CRJU 345)  
 SOCI 346 AGING AND SOCIETY  
 SOCI 360 SOCIOLOGY OF RELIGION (X-LISTED W/JWST 360)  
 SOCI 361 RACIAL INEQUALITY  
 SOCI 471 DISASTERS, VULNERABILITY, AND DEVELOPMENT  
 UAPP 110 CHANGING THE WORLD: THE ROLE OF PUBLIC POLICY  
 UAPP 225 CRAFTING PUBLIC POLICY  
 WOMS 201 INTRODUCTION TO WOMEN'S STUDIES  
 WOMS 206 WOMEN AND WORK  
 WOMS 211 MEN, CONFLICT AND SOCIAL CHANGE  
 WOMS 212 MOTHERHOOD IN CULTURE AND POLITICS  
 WOMS 233 WOMEN, BIOLOGY AND MEDICINE  
 WOMS 240 WOMEN AND VIOLENCE  
 WOMS 301 GAY AND LESBIAN FILM  
 WOMS 304 ADOLESCENT GIRLS IN MULTICULTURAL PERSPECTIVE  
 WOMS 363 WOMEN IN CROSS-CULTURAL PERSPECTIVE  
 WOMS 389 TOPICS: WOMEN AND HEALTH ISSUES  
 WOMS 401 FOUNDATIONS OF HUMAN SEXUALITY (X-LISTED W/ HESC 401 AND HDFS 401)  
 Mathematics, Natural Sciences, and Technology  
 ANFS 101 INTRO TO ANIMAL SCIENCE  
 ANFS 102 FOOD FOR THOUGHT  
 ANFS 230 FOODBORNE DISEASES: INVESTIGATING OUTBREAKS  
 ANFS 241 INTRO TO EQUINE NUTRITION  
 ANFS 261 PRINCIPLES OF COMPANION ANIMAL NUTRITION  
 ANFS 305 FOOD SCIENCE  
 ANTH 102 INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY  
 ANTH 104 INTRODUCTION TO ARCHAEOLOGY AND BIOLOGICAL ANTHROPOLOGY  
 ANTH 202 HUMAN EVOLUTION AND THE FOSSIL RECORD (X-LISTED W/CGSC 202)  
 ANTH 300 PRIMATOLOGY  
 ANTH 305 EVOLUTION OF HUMAN SEX ROLES AND REPRODUCTION  
 ANTH 424 INTRODUCTION TO ARCHAEOLOGICAL FIELD METHODS  
 ARTC 210 SCIENCE OF COLOR PHENOMENA  
 ARTH 205 SCIENCE AND THE DETECTION OF ART FORGERIES (X-LISTED W/ MSST 205)  
 BISC 103 PRINCIPLES OF BIOLOGY  
 BISC 104 PRINCIPLES OF BIOLOGY W/ LAB  
 BISC 105 HUMAN HEREDITY AND DEVELOPMENT  
 BISC 106 ELEMENTARY HUMAN PHYSIOLOGY  
 BISC 107 ELEMENTARY EVOLUTION ECOLOGY  
 BISC 110 VIRUSES, GENES, AND CANCER  
 BISC 113 GENERAL BIOLOGY LAB  
 BISC 115 HUMAN HEREDITY AND DEVELOPMENT W/ LAB  
 BISC 116 ELEMENTARY HUMAN PHYSIOLOGY LAB  
 BISC 117 ELEMENTARY EVOLUTION ECOLOGY LAB

BISC 127 ENVIRONMENT AND CULTURES IN CONFLICT  
 BISC 152 BIOLOGY OF HUMAN SEXUALITY  
 BISC 171 MICROBIOLOGY IN MODERN SOCIETY  
 BISC 195 BIOLOGICAL EVOLUTION  
 BISC 207 INTRO BIOLOGY I  
  
 BREG 103 LAND AND WATER MANAGEMENT  
  
 CGSC 202 HUMAN EVOLUTION AND THE FOSSIL RECORD (X-LISTED W/ ANTH 202)  
  
 CHEM 100 CHEMISTRY AND THE HUMAN ENVIRONMENT  
 CHEM 101 GENERAL CHEMISTRY  
 CHEM 102 GENERAL CHEMISTRY  
 CHEM 103 GENERAL CHEMISTRY  
 CHEM 104 GENERAL CHEMISTRY  
 CHEM 105 GENERAL CHEMISTRY  
 CHEM 111 GENERAL CHEMISTRY  
 CHEM 112 GENERAL CHEMISTRY  
  
 CISC 101 COMPUTER & INFORMATION SYSTEMS  
 CISC 103 INTRO TO COMPUTER SCIENCE W/ WEB APPLICATIONS  
 CISC 106 GENERAL COMPUTER SCIENCE FOR ENGINEERS  
 CISC 108 INTRO TO COMPUTER SCIENCE I  
 CISC 181 INTRO TO COMPUTER SCIENCE II  
  
 ECON 415 ECONOMIC FORECASTING  
  
 ENWC 201 WILDLIFE CONSERVATION AND ECOLOGY  
 ENCW 205 ELEMENTS OF ENTOMOLOGY  
  
 FREC 240 QUANTITATIVE METHODS IN AGRICULTURAL ECONOMICS  
 FREC 408 STATISTICAL RESEARCH METHODS  
  
 GEOG 101 PHYSICAL GEOGRAPHY: CLIMATIC PROCESSES  
 GEOG 106 PHYSICAL GEOGRAPHY: LAND SURFACE PROCESSES  
 GEOG 111 CLIMATIC PROCESSES LAB  
 GEOG 152 CLIMATE AND LIFE  
 GEOG 220 METEOROLOGY  
 GEOG 271 INTRO TO GEOGRAPHIC DATA ANALYSIS  
  
 GEOL 105/115 GEOLOGIC HAZARDS W/ LAB  
 GEOL 105 GEOLOGIC HAZARDS AND THEIR HUMAN IMPACT  
 GEOL 107 GENERAL GEOLOGY  
 GEOL 108 VOLCANOES AND EARTHQUAKES  
 GEOL 109 PLANETS, ASTEROIDS, AND IMPACTS  
  
 GEOL 110 EARTH HISTORY-EVOLUTION, EXTINCTION, AND THE GEOLOGIC RECORD  
 GEOL 111 THE GEOLOGY OF DELAWARE AND ITS NEIGHBORS  
 GEOL 112 EARTH RESOURCES AND PUBLIC POLICY  
 GEOL 113 EARTH SCIENCE  
 GEOL 120 LIFE IS A BEACH  
  
 HESC 180 INTRODUCTION TO EXERCISE SCIENCE  
 HESC 220 ANATOMY AND PHYSIOLOGY  
 HESC 483 INJURY CONSIDERATIONS FOR THE FEMALE ATHLETE  
  
 HLPR 222 INTRODUCTION TO EPIDEMIOLOGY  
  
 LING 451 LOGICAL STRUCTURES IN LANGUAGE  
  
 MAST 200 THE OCEANS  
  
 MATH 201 INTRO TO STATISTICAL METHODS  
 MATH 210 DISCRETE MATHEMATICS I  
 MATH 221 CALCULUS I  
 MATH 222 CALCULUS II  
 MATH 230 FINITE MATHEMATICS WITH APPLICATIONS  
 MATH 241 ANALYTIC GEOMETRY AND CALCULUS A  
 MATH 242 ANALYTIC GEOMETRY AND CALCULUS B  
  
 MEDT 200 THE LANGUAGE OF MEDICINE  
 MEDT 220 FORENSIC SCIENCE  
  
 MEEG 112 STATICS  
  
 MSST 205 SCIENCE AND THE DETECTION OF ART FORGERIES (X-LISTED W/ ARTH 205)  
  
 NSCI 320 INTRO TO NEUROSCIENCE (X-LISTED W/ PSYC 320)  
  
 NTD 200 NUTRITION CONCEPTS  
  
 PHIL 205 LOGIC  
 PHIL 207 SCIENTIFIC REASONING  
 PHIL 211 BASIC DECISION THEORY  
  
 PHYS 133 INTRODUCTION TO ASTRONOMY  
 PHYS 141 LIGHT, LASERS, CAMERAS, PERCEPTION  
 PHYS 143 ENERGY TECHNOLOGY AND SOCIETY  
 PHYS 144 CONCEPTS OF THE UNIVERSE  
 PHYS 145 BLACK HOLES AND COSMIC

EVOLUTION  
 PHYS 146 QUARKS, GLUONS, AND THE BIG BANG: PARTICLES AND COSMOLOGY  
 PHYS 201 INTRODUCTORY PHYSICS I  
 PHYS 202 INTRODUCTORY PHYSICS II  
 PHYS 207 FUNDAMENTALS OF PHYSICS I  
 PHYS 208 FUNDAMENTALS OF PHYSICS II  
  
 PLSC 101 BOTANY I  
 PLSC 133 ORNAMENTAL HORTICULTURE  
 PLSC 140 PEOPLE AND PLANTS: FEAST OR FAMINE  
 PLSC 204 INTRO TO SOIL SCIENCE  
 PLSC 212 WOODY LANDSCAPE PLANTS  
 PLSC 214 INDIGENOUS WOODY PLANTS OF THE EASTERN US  
  
 PSYC 314 BRAIN AND BEHAVIOR  
 PSYC 320 INTRO TO NEUROSCIENCE (X-LISTED W/ NSCI 320)  
  
 SCEN 101 PHYSICAL SCIENCE  
 SCEN 102 PHYSICAL SCIENCE  
  
 STAT 200 BASIC STATISTICAL PRACTICE

### Undergraduate Majors

Accounting(BS)  
 Agriculture and Natural Resources(BS)  
 Agricultural Education(BS)  
 Animal and Food Sciences(BS)  
 Anthropology(BA)  
 Anthropology Education(BA)  
 Apparel Design(BS)  
 Applied Music - Instrumental(BM)  
 Applied Music - Piano(BM)  
 Applied Music - Voice(BM)  
 Applied Nutrition(BS)  
 Art(BA)  
 Art Conservation (BA)  
 Art History(BA)  
 Asian Studies (BA)  
 Athletic Training(BS)  
 Biochemistry(BS)  
 Biological Sciences(BA)  
 Biological Sciences - Pharmaceutical Sciences(BS)  
 Biological Sciences - Cell, Molecular Biology and Genetics(BS)  
 Biological Sciences - Biotechnology(BS)  
 Biological Sciences Education(BA)  
 Biomedical Engineering(BBE)  
 Black American Studies(BA)  
 Chemical Engineering(BChE)  
 Chemistry(BA)  
 Chemistry(BS)  
 Chemistry - Environmental(BS)

Chemistry Education(BA)  
 Civil Engineering(BCE)  
 Cognitive Science(BS)  
 Communication - Interpersonal Communication(BA)  
 Communication - Mass Communication(BA)  
 Comparative Literature(BA)  
 Computer Engineering(BCpE)  
 Computer Science(BA)  
 Computer Science(BS)  
 Criminal Justice(BA)  
 Criminal Justice - Law and Society(BA)  
 Dietetics(BS)  
 Early Childhood Education(BS)  
 Earth Science Education(BA)  
 Ecology (BS)  
 Economics(BA)  
 Economics(BS)  
 Economics - Applied Economics(BA/BS)  
 Economics - Economic Theory and Econometrics(BA/BS)  
 Economics Education(BA)  
 Elementary Teacher Education(BSED)  
 Electrical Engineering(BEE)  
 Energy and Environmental Policy(BS)  
 Engineering Technology (BS)  
 Engineering Technology - Natural Resources  
 Engineering Technology (BS)  
 Engineering Technology - Construction Technology and Technical Management (BS)  
 English - Literature Studies(BA)  
 English - Professional Writing(BA)  
 English - Creative Writing(BA)  
 English - Drama(BA)  
 English - Ethnic and Cultural Studies(BA)  
 English - Film(BA)  
 English Education(BA)  
 Entomology(BS)  
 Environmental Engineering(BEnE)  
 Environmental Science(BS)  
 Environmental Studies(BA)  
 Environmental Soil Science(BS)  
 European Studies(BA)  
 Exercise Science - Biomechanics and Motor Control(BS)  
 Exercise Science - Exercise Physiology(BS)  
 Exercise Science - Medical Scholar(BS)  
 Fashion Merchandising(BS)  
 Finance(BS)  
 Fine Arts(BFA)  
 Food and Agribusiness Marketing and Management(BS)  
 Food Science(BS)  
 Foreign Languages and Literatures - Ancient Greek and Roman Studies(BA)  
 Foreign Languages and Literatures - Chinese Studies (BA)  
 Foreign Languages and Literatures - French Studies(BA)

Foreign Languages and Literatures - German Studies(BA)  
 Foreign Languages and Literatures - Italian Studies(BA)  
 Foreign Languages and Literatures - Japanese Studies (BA)  
 Foreign Languages and Literatures - Russian Studies(BA)  
 Foreign Languages and Literatures - Spanish Studies(BA)  
 Foreign Languages and Literatures - Three Languages(BA)  
 French Education(BA)  
 Geography(BA)  
 Geography Education(BA)  
 Geology(BA)  
 Geology(BS)  
 German Education(BA)  
 Health and Physical Education(BS)  
 Health Behavior Science(BS)  
 Health Studies(BS)  
 Health Studies - Occupational Therapy(BS)  
 History(BA)  
 History - American History(BA)  
 History - European History(BA)  
 History - World History(BA)  
 History Education(BA)  
 History Education - American History(BA)  
 History Education - European History(BA)  
 History Education - World History(BA)  
 History - Classics, French, German, Russian or Spanish(BA)  
 Hotel, Restaurant and Institutional Management(BS)  
 Human Services - Administration and Family Policy (BS)  
 Human Services - Clinical Services (BS)  
 Human Services - Community Education (BS)  
 Human Services - Family and Consumer Sciences Education (BS)  
 Information Systems(BS)  
 International Business Studies(BS)  
 International Relations(BA)  
 Italian Education(BA)  
 Landscape Horticulture and Design(BS)  
 Latin American and Iberian Studies(BA)  
 Latin Education(BA)  
 Latin Education - Classics(BA)  
 Management(BS)  
 Management Information Systems(BS)  
 Marketing(BS)  
 Mathematics Education(BA)  
 Mathematics Education(BS)  
 Mathematical Sciences(BA)  
 Mathematical Sciences(BS)  
 Mathematics and Economics(BS)  
 Mechanical Engineering(BME)  
 Medical Technology(BS)  
 Music(BA)

Music - Music Management Studies(BA)  
 Music Education - Instrumental(BM)  
 Music Education - Piano(BM)  
 Music Education - Voice(BM)  
 Natural Resource Management(BS)  
 Neuroscience(BS)  
 Nutritional Sciences(BS)  
 Nursing(BSN)  
 Nursing - Accelerated Degree Program(BSN)  
 Nursing for the Registered Nurse (BSN)  
 Operations Management(BS)  
 Organizational and Community Leadership(BS)  
 Philosophy(BA)  
 Physics(BA)  
 Physics(BS)  
 Physics - Astronomy/Astrophysics(BS)  
 Physics Education(BA)  
 Plant Protection(BS)  
 Plant Science(BS)  
 Political Science(BA)  
 Political Science - French, German, or Spanish(BA)  
 Political Science Education(BA)  
 Pre-Veterinary Medicine and Animal Biosciences(BS)  
 Psychology(BA)  
 Psychology(BS)  
 Psychology Education(BA)  
 Public Policy(BA)  
 Quantitative Biology(BS)  
 Resource Economics(BS)  
 Resource Economics - Environmental Economics(BS)  
 Resource Economics - Sustainable Development(BS)  
 Sociology(BA)  
 Sociology - Emergency and Environmental Management(BA)  
 Sociology - Health Services(BA)  
 Sociology - Law and Society(BA)  
 Sociology - Social Welfare(BA)  
 Sociology Education(BA)  
 Spanish Education(BA)  
 Sport Management(BS)  
 Statistics(BS)  
 Theory/Composition(BM)  
 Visual Communications(BFA)  
 Wildlife Conservation(BS)  
 Women's Studies(BA)  
 Women's Studies - Women in Global Perspective(BA)

### **Undergraduate Minors**

Advertising  
 African Studies  
 Animal Science  
 Anthropology  
 Art History

Asian Studies  
Astronomy  
Biomedical Engineering  
Biochemical Engineering  
Biochemistry  
Bioelectrical Engineering  
Bioinformatics  
Biology  
Black American Studies  
Business Administration  
Chemistry  
Civil Engineering  
Coaching Science  
Coastal and Marine Geoscience  
Cognitive Science  
Comparative Literature  
Computational Biology  
Computer Science  
Dance  
Disabilities Studies  
Domestic Violence Prevention and Services  
Economics  
Educational Studies  
Educational Technology  
Electrical and Computer Engineering  
Energy and Environmental Policy  
English  
Engineering Technology  
Entomology  
Entrepreneurial Studies  
Environmental Engineering  
Environmental Soil Science  
Exercise Science  
Fashion History and Culture  
Fine Arts  
Food and Agribusiness Marketing and Management  
Food Science  
Foreign Language and Literatures  
Geography  
Geology  
History  
Human Development and Family Studies  
Interactive Media  
International Business/International Business with Language  
International Business  
Irish Studies  
Islamic Studies  
Jewish Studies  
Journalism  
Landscape Horticulture and Design  
Latin American Studies  
Legal Studies  
Leisure Service Management  
Linguistics  
Management Information Systems  
Marine Studies  
Material Cultural Studies

Materials Science and Engineering  
Mathematics  
Medical Diagnostics  
Medical Humanities  
Medieval Studies  
Music - Applied Music  
Music - Church Music  
Music - Jazz Studies  
Music - Music Management Studies  
Music - Musical Studies  
Nanoscale Materials  
Nutrition  
Operations Research  
Organizational Leadership  
Performance Studies  
Philosophy  
Physics  
Political Communication  
Political Science  
Psychology  
Public Health  
Religious Studies  
Resource Economics  
Sexuality and Gender Studies  
Sociology  
Statistics  
Strength and Conditioning  
Sustainable Energy Technology  
Theatre Production  
Theatre Studies  
Urban Education  
Wildlife Conservation  
Women's Studies

### **Graduate Majors**

Accounting and Management Information Systems(MS)  
Agricultural Education(MA)  
Animal and Food Sciences(MS, PhD)  
Applied Physiology (PhD)  
Art Conservation(MS)  
Art History(MA, PhD)  
Bioinformatics and Computational Biology(Certificate, PSM, MS)  
Biological Sciences(MS,PhD)(PhD/MBA)  
Biomechanics and Movement Science (MS, PhD)  
Bioresources Engineering(MS)  
Business Administration(MBA)  
Chemical Engineering(MCHE,PhD)  
Chemistry and Biochemistry(MA,MS,PhD)  
Civil Engineering(MAS,MCE,PhD)  
Communication(MA)  
Computer Science(MS,PhD)  
Disaster Science and Management(MA,PhD)  
Economics(MA, PhD)  
Economics and Applied Econometrics(MS)  
Economic Education(PhD)  
(Dual Degree MBA/MA)

Education(PhD)  
Education(M.ED)  
Educational Leadership(EdD)  
Educational Technology (M.ED)  
Electrical and Computer Engineering(MS,PhD)  
Energy and Environmental Policy(MEEP, PhD)  
English(MA, PhD)  
Entomology and Wildlife Ecology(MS, PhD)  
Evaluation(MS)  
Exceptional Children and Youth (M.ED)  
Exercise Science (MS)  
Fashion Studies(MS,PhD)  
Finance(MS)  
Fine Arts(MFA)  
Food and Resource Economics(MS, PhD)  
Foreign Languages and Literatures(MA)  
Foreign Languages and Pedagogy(MA)  
Geographical Sciences(MS,PhD)  
Geography(MS, PhD)  
Instruction (MI)  
Health Promotion (MS)  
Health Services Administration(MS)  
Higher Education Administration (M.ED)  
History(MA, PhD)  
Hotel, Restaurant and Institutional  
Management(MS)  
Human Development and Family Studies(MS)  
Human Development and Family Studies(PhD)  
Human Nutrition (MS)  
Human Nutrition/Dietetic Internship Program  
(MS)  
Human Services (Combined BS/MS)  
Instruction(MI)  
Liberal Studies(MA)  
Linguistics and Cognitive Science(MA, PhD)  
(BS/MA option)  
Marine BioSciences(MS,PhD)  
Marine Management(MMM)  
Marine Policy(MMP)  
Mathematical Sciences(MS,PhD)  
Materials Science and Engineering(MMSE,PhD)  
Mechanical Engineering(MEM,MSME,PhD)  
Music(MM)  
Nursing(MSN, PhD)  
Nursing (BSN/MSN)  
Ocean Engineering(MS,PhD)  
Oceanography(PhD)  
Organizational Effectiveness, Development and  
Change(MS)(Dual Degree MBA/MS)  
Physical Ocean Science And Engineering  
(MS,PhD)  
Physical Therapy (DPT)  
Philosophy(PhD)  
Plant and Soil Sciences(MS, PhD)  
Political Science and International Relations  
(MA, PhD)  
Psychology(MA,PhD)  
Public Administration(MPA)  
Public Horticulture - Longwood Graduate

Program(MS)  
Physics(MS, PhD)  
Reading (M.ED)  
School Leadership (M.ED)  
School Psychology(MA,EdS)  
Sociology and Criminology(MA, PhD)  
Teaching(MA)  
Teaching English as a Second Language(MA)  
Teaching English as a Second  
Language(Combined BA/MA)  
Theatre(MFA)  
Urban Affairs and Public Policy(MA)  
Urban Affairs and Public Policy(PhD)  
Winterthur Program in American Material  
Culture(MA)