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## Special Learning Opportunities

Individualized Courses, Alternative Credit, Experiential Learning, Study at Other Institutions

*Many students will desire educational experiences that extend beyond the regular courses of the university. The university thus offers various individually-initiated learning experiences to its students.*

*Such opportunities are of many sorts. They include Independent Study, Contract Learning, and Directed Study; study at a nearby university through cross-registration; study abroad; and receiving credit through a variety of standardized examinations.*

### Special Course Opportunities

#### Directed Study

Students who wish to take a regular university course in a term when it is not offered may seek to do so through a Directed Study option. However, students must understand that, because the appropriate faculty must be available and approvals must be granted, the option of Directed Study for a particular course is not always available.

In Directed Study, the faculty member must agree to provide the student with close supervision, in achieving the **same** course objectives that would have been accomplished had the student taken the course on a regular class basis. Permission for Directed Study must be obtained from the subject/course faculty member, the student's department chairperson, and the college dean, after consultation with the faculty advisor.

Forms for enrolling in Directed Study are available at the Registrar's Office. Directed Study courses will be so designated on the student's transcript, displaying the title of the course undertaken. Directed Study courses are offered at each course level, 1xx, 2xx, 3xx, and 4xx, in order to match the level of the course of record.

#### Independent Study

Independent Study, which is faculty-supervised research or readings into areas of study outside the current curriculum, offers students the opportunity to investigate a research topic or readings independently, under the close supervision of a faculty member. Independent Study will only be approved for research into areas of study that do not duplicate the University's current curriculum of courses.

The student will be responsible for meeting the requirements of the Independent Study

as outlined and approved, and the faculty sponsor will assume responsibility for coordinating the Independent Study, evaluating its results, and determining an appropriate grade.

Upper Division students may request to do Independent Study, upon recommendation of a faculty sponsor and approval of the student's department chairperson and college dean. **Twelve semester credits is the maximum of Independent Study allowed for an undergraduate academic career.** The student must submit a written proposal and outline of the program of study to be undertaken, which, if approved by the sponsor and the department chairperson, will become a guide for evaluating the student's performance and accomplishment.

Forms for enrolling in Independent Study are available at the Registrar's Office. Independent Study courses will be so designated on the student's transcript, displaying an annotation of the topic undertaken.

### Internships, Practicums, and Experiential Learning

Students in any major may arrange for an external learning experience. Most departments list the course Experiential Learning for their majors; it offers lower-division work experience at an elective level. Some of the university's majors offer upper-division internship or practicum opportunities for students. There is considerable variety in the types of experience provided and the levels and amounts of credit.

#### Experiential Learning

Experiential Learning provides an opportunity for practical application of academic training while earning academic credit.

Under the direction of a faculty sponsor, arrangements are made to work under the immediate supervision of a supervisor at a work site, which may be located on or off campus. The range of project types and settings is almost limitless, creating exciting ways to enrich one's academic studies, to test a tentative career choice, and to gain valuable experience.

The program is administered through the Career Resource Center, where students obtain assistance in finding a faculty sponsor and a work setting and in completing the required forms.

The Experiential Learning contract is an agreement to undertake a significant academic learning experience:

- Participating students maintain a log or journal of experiences. They also receive assessments from the individual they are working for, the supervisor at the work site.

- In all cases, the student must submit a work of writing and reflection to the faculty sponsor. Such a document might, for example, include the following: a) how objectives were met, b) how personal improvement has been stimulated, c) how the internship experience has related to the student's academic experience, and d) how the internship could be improved for students who pursue similar projects in the future. The exact assignment is determined by the sponsoring faculty member.

- The faculty sponsor evaluates the project and assigns either a CR or NC grade.

Students wishing to participate must submit a contract proposal and receive the required approvals. The Career Resource Center

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assists students in making these arrangements.

- Students must propose a contract and receive an initial approval **before** the deadline for registration.
- By another deadline, the student must submit a formal written proposal to the faculty sponsor that both specifies the goals and objectives of the internship and details the activities and academic work to be performed.
- By the same deadline, the student must obtain approvals from the faculty sponsor, his/her department chairperson, and her/his college dean.

The following are some of the academic limitations and definitions:

- Students must be at least sophomores to participate.
- Although the typical internship contract would earn three credits, internships proposing a greater/lesser number of credit hours are also possible. Experiential Learning credits are part of the normal student credit load and subject to university policy with regard to credit hour limitations.
- Experiential Learning courses may not be used to fulfill distribution or general education requirements but serve as free electives and may be accepted toward the requirements of some majors.
- Experiential Learning credits are lower-division credits.
- Students on academic probation are not eligible for Experiential Learning, unless ineligibility is waived by their college dean.
- The work assignment is to comprise at least 45 clock hours per academic credit, for the semester.
- Supervision of students doing projects under the Experiential Learning program shall in all cases exclude individuals who are themselves undergraduate degree candidates; and a faculty member cannot serve as both supervisor and sponsor.

Students in the College of Business are offered a junior-level Internship course in lieu of Experiential Learning. They may contact the Career Resource Center for assistance.

#### **General Limitation on Internship Credit**

No more than 1/8th of the graduation credits required for the student's major may be earned in optional internships, including Experiential Learning. Thus, a student in a 120 credit program could apply up to 15 credits in such studies toward the degree.

#### **Internships, Clinical Experiences, and Practicums in the Majors**

In some of the university's majors, students are required to have an upper-division internship, practicum, or clinical experience; in some others, an optional course is offered. These studies range from an experience nearby in a course the student takes along with other on-campus courses that semester, to a semester or even a year in an extensive experience which may be well away from campus. Consult the requirements section for your major to learn of these opportunities.

#### **Cooperative Education in Engineering**

The College of Engineering offers cooperative education experiences to qualified students. Students in the program alternate a semester/summer in coursework with a semester/summer on the job full time. Please consult the front of the catalogue section on the College of Engineering.

#### **Internships Away from Campus through Affiliated Programs—The Washington Center; Disney**

Some programs that may be available to UMass Dartmouth students, like those of The Washington Center or Disney Enterprises, offer a full semester at an internship site. The university has formulated procedures whereby the student can maintain an appropriate enrollment status to participate in such internship programs.

Financial arrangements, enrollment status, and credit that can be earned vary, depending on the program. The Washington Center program provides financial assistance in the form of tuition waivers and some scholarship support, and offers means of earning UMass

Dartmouth credit while participating. Disney internships differ depending whether one undertakes an initial or a second experience, as these vary in how UMass recognizes the academic experience.

More can be learned about these opportunities from advisors in the student's major field or at the Career Resource Center, which serves as the contact point for the many arrangements that the students need to make.

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## Study Abroad

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The university encourages its students to study abroad. A number of exchange agreements have been established to facilitate study abroad, together with procedures for academic advisement, registration, and planning personal finances. In addition, a wide variety of programs are available, both of short duration and for a semester or a year.

### Opportunities

The university has formal exchange agreements with the University of Grenoble (France), the Lycée du Grésivaudan at Meylan (just outside Grenoble), Nottingham Trent University (England), the Baden-Württemberg Universities (Germany), Centro de Arte e Comunicação (Lisbon, Portugal); Nova Scotia College of Art and Design, the Ecole Nationale Supérieure des Industries Textiles of the Université de Haute Alsace (France), and Minho University (Portugal). We are also a member of a consortium of art schools—SACI—in Florence, Italy. Programs at these schools allow students to pursue studies in or related to their UMass Dartmouth major fields.

These exchange agreements also bring students from these many countries to study at UMass Dartmouth.

The exchange programs listed above present only one way for UMass Dartmouth students to study abroad. A large pool of additional exchange opportunities is made available to our students through the Massachusetts Consortium on International Education (MaCIE), which includes all public colleges and universities in the state. Through MaCIE, our students can choose from the study abroad opportunities offered by other public higher education institutions in Massachusetts. In addition, there are informal opportunities for study and travel during the academic year and summer.

For example, in a recent summer, the College of Visual and Performing Arts offered a design, painting, and drawing workshop in La Napoule, France (near the French Riviera). The Overseas Study Program in the College of Business sponsors a yearly trip to another country to explore an area of interest in international business. The Center for Portuguese Studies offers yearly summer study trips to Portugal.

Furthermore, students may take the initiative in finding other programs on their own; for example, students have attended University College Galway (Ireland), Shiller University (Germany), University of Wales, University of Lisbon (Portugal), University of Oviedo (Spain), University of New South Wales (Australia), Civil University "Vicente Rocafuerte" Guayaquil (Ecuador), and Tunghai University (Taiwan).

The following people can provide more information about these programs and related opportunities.

**General assistance with study abroad and MaCIE liaison**—John Carroll, Academic Advising Center

**Baden-Württemberg, and its affiliated universities: The Universities of Heidelberg, Mannheim, Freiburg, Ulm, Stuttgart, Konstanz, Tübingen, Hohenheim, and Karlsruhe**—Joseph Bronstad, Department of Foreign Literature and Languages

**Centro de Arte**—Memory Holloway, Department of Art History; Susan Hamlet, Department of Visual Design

**University of Grenoble**—Richard Golen, Assistant Dean, Charlton College of Business

**Lycée de Gresivaudan**—Lewis Kamm, Department of Foreign Literature and Languages

**Nottingham Trent**—John Carroll, Academic Advising Center

**South Africa, University of the North**—Thomas Ranuga, Department of Sociology/Anthropology

**Ecole Nationale Supérieure des Industries Textiles; Minho University (Portugal)**—Kenneth Langley, Department of Textile Sciences

**Duncan of Jordanstone College, University of Dundee**—Michael Taylor, Department of Art History

### Policies and Procedures

In many cases, financial aid may be obtained; please contact your Financial Aid counselor. Furthermore, a special scholarship, the Mary Louise Walsh Fund for International Study, makes assistance

available in the form of grants to undergraduates and graduating seniors.

Students who wish to study abroad while remaining UMass Dartmouth students may be listed as in Study on Exchange status (sometimes called Study Away or Study Abroad). This status allows students to remain in current, registered status while they pursue full-time studies at another higher-education institution, which is usually located in another country. They may thus remain matriculated students and continue to qualify for their financial aid benefits. A modest fee is charged. Forms may be obtained in the Academic Advising Center.

Students seeking to study abroad must first plan with their faculty advisors the program of study that they intend to pursue at the other institution and receive departmental approval of this study plan.

Credits completed while a student is in Study on Exchange status will be displayed on the transcript with grades shown and will be considered for financial aid qualitative requirements.

**Grades earned in study abroad, converted to UMass Dartmouth equivalents, will be included in calculating the student's GPA and cumulative grade record.**

The Office of the Associate Vice Chancellor for Academic Affairs/Graduate Studies provides general oversight over exchange programs. The Academic Advising Center assists students in making a choice of study abroad site, in making academic plans, and with visa and travel arrangements.

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## Receiving Credit Through Standardized Examinations

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### CLEP Examinations

The University has approved the use of the College Level Examination Program (CLEP). The CLEP exams are offered by the College Entrance Examination Board. The program enables those who have reached the college level of education outside the university to demonstrate their achievement and to use the test results for college credit and/or placement.

The equivalency of CLEP examinations to this university's courses shall be determined by the department that teaches that subject matter. CLEP credits may not be used to duplicate or replace credits for coursework taken here or elsewhere. The Office of the University Registrar maintains a current list of CLEP examinations accepted for credit; we advise current students to consult us before deciding to take CLEP tests.

CLEP credits are defined as transfer credits and will not be reflected in an individual's grade point average. **No more than 30 credits earned by CLEP Examination may be used to satisfy degree requirements.**

Two types of CLEP examinations are offered:

#### Subject Examinations

One semester's course credits (usually 3) or two semesters' course credits (usually 6) may be awarded for a score at or above 50, as reported on the CLEP score report. Such credits are generally used to satisfy university distribution requirements or may be used as elective credits.

#### General Examinations

Credit is **not** awarded at UMass Dartmouth for the CLEP General Examinations.

### Advanced Placement—AP Credit

Advanced placement and/or college credit are awarded to entering freshman students presenting Advanced Placement Examination grades of three or higher (four for credit in Psychology) in most AP fields. AP courses taught in high schools are college-level courses, and the students' mastery of the content is validated by the AP Examination series administered by the College Board. Such course credits may be used to satisfy degree requirements, general education requirements, or will allow students to place into a more advanced initial course.

### Advanced Placement—Dual Enrollment Credit

Some freshman students enter the university with college credit already earned, from courses taken at a college or university while they were in high school, many through the Massachusetts Dual Enrollment program.

### Proficiency Challenge Examinations

Students transferring to the major in nursing, as well as certain other programs, may be asked to verify proficiency in some subjects taken earlier, through challenge examinations. Some examinations are departmentally administered, while others are provided through the CLEP program, mentioned above. Refer to the departmental sections in the *General Catalogue*; details will also be provided by the departments.

### Military Service Training

For Military Service School training, credit may be awarded according to the recommendations contained in the most recent Guide to the Evaluation of Educational Experience in the Armed Services of the American Council on Education. These credits cannot be applied to the student's major field of studies. Additional information is available at the Office of Admissions.

### Credit for Validated Prior Learning

The Division of Continuing Education offers credit for validated prior learning to those who have become regular, registered students. This program provides university academic credit for students in most majors who, through occupational or other experiences, have achieved the equivalent of college-level knowledge. Their prior learning is documented through a one-semester workshop and then evaluated for credit. For further information, consult the Division of Continuing Education.

### SACHEM Cross-Registration

UMass Dartmouth students may cross-register for courses at other SACHEM (Southeastern Association for Cooperation in Higher Education in Massachusetts) institutions on a space-available, prior-approval basis. Likewise, students at these other institutions may cross-register for courses at UMass Dartmouth. Institutions involved in the program, in addition to UMass Dartmouth, are:

Bridgewater State College

Bristol Community College

Cape Cod Community College

Dean College

Massachusetts Maritime Academy

Massasoit Community College

Stonehill College

Wheaton College.

Tuition and fees established by the "away" institution are suspended, provided that the matriculated student is a degree-seeking student at the home institution and carries and pays for a full-time load there. Further information and appropriate forms may be obtained in the Registrar's Office.

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## Outreach: Centers, Laboratories, Programs, and Events

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*Many special activities contribute to the university's mission and reflect its active roles in the region. The university takes very seriously its responsibility to make its intellectual resources accessible widely. Furthermore, the university is concerned to maintain an on-going relationship with its graduates and the families of its students. The university maintains many centers and laboratories that expand knowledge and contribute to economic development in the region.*

Described here are various offices and programs which extend beyond the university's walls or reach out to others than the current student body. The listing is by no means exhaustive, but presents some key programs and offices that help the institution fulfill its broader purposes.

### **UMass Dartmouth Parents' Association**

Formed in 1991, the UMass Dartmouth Parents' Association actively participates with university administrators and students to insure communication of ideas, to promote programs that benefit students, parents, and the university, and to act as a parents' support group. Every parent of a current UMass Dartmouth undergraduate student is automatically a member of the organization and is encouraged to offer financial as well as personal support to the activities of the Parents' Association.

Administrative liaison for the Association is provided through Susan Costa, Associate Vice Chancellor for Student Services (contact 508-999-8640 for further information).

### **UMass Dartmouth Foundation**

The UMass Dartmouth Foundation encompasses both fund-raising and alumni relations activities. Through the Annual Fund and a variety of other fund-raising initiatives, the Foundation office helps provide annual and long-term support for the university.

The UMass Dartmouth Foundation is a separately-chartered, tax-exempt corporation governed by its own board of directors, which solicits, receives, and administers gifts to the University and manages UMass Dartmouth's endowment, including funds devoted to specific purposes such as scholarships, faculty development, library support, and the like. The Foundation also seeks financial support for the University as well as non-monetary gifts, and assists with planned gifts and bequests.

Members of the University community who are aware of friends and alumni who might be of special help to UMass Dartmouth are encouraged to contact the UMass Dartmouth Foundation at 508-999-8760.

### **UMass Dartmouth Alumni Association**

The alumni office provides communication and services for UMass Dartmouth's more than 30,000 alumni throughout the country and abroad. The UMass Dartmouth Alumni Association is the largest volunteer organization on campus, representing former students in all 50 states and around the world. Serving as liaison between the university and its former students, the Alumni Association provides opportunities for people to get involved in shaping the future of their school. Contact the Alumni Affairs Office, Foster Administration Building, room 322 (or call 508-999-8031).

As students graduate, they are invited to remain actively involved in partnership with the university, through the Alumni Association. An earlier section of this *Catalogue* describes activities of the Association that especially involve current students.

### **Office of Grants and Contracts**

The Office of Grants and Contracts addresses an important element of the university's mission: to foster research, scholarship, creative productions, and other professional activities by faculty and staff. The program accomplishes this mission by providing three basic services:

- Research and Information: assisting in the identifying of funding opportunities, maintaining current information on sources most responsive to the university's needs, and providing administrative support services on faculty research projects;
- Proposal Development and Submission: assisting in all aspects of proposal development and submission;
- Award Negotiation: negotiating and administering award contracts on behalf of the university. All post-award management is handled by the Fiscal Affairs Division of the university.

Today, the university administers more than 12 million dollars in externally funded projects, including research, educational support, and training projects. In the past five years, the level of funding received by the university has more than tripled. The increase in level of activity has resulted in

many benefits to the university, including added support for graduate programs, expanded opportunities for faculty research, and greater selectivity in the projects the university seeks and thus an enhanced relationship between research activities and the goals and purposes of the institution.

The Office of Grants and Contracts is located in the Foster Administration Building, Room 011.

### **Office of Institutional Research**

Institutional Research (IR) designs and manages an on-going process for institutional self-study to facilitate the university's mission. IR produces research information and analyses, provides strategic planning with a specific focus on outcomes assessment, undertakes special studies and implements results, conceptualizes and manages IR data systems, undertakes analysis of and makes recommendations on program and policy issues, and advises concerning projections and models to guide planning and management of resources.

The Office oversees preparation of reports required by the UMass system, state legislature, federal government, and other public and private organizations. Data collection and systematization are coordinated to improve data usefulness and quality. IR also works with the academic community on the evaluation and implementation of courses of action which will enhance students' learning and overall experiences at the university.

The Office of Institutional Research is located in the Foster Administration Building (508-999-8486).

### **Office of News and Public Information**

The News and Public Information Office, in Room 306, Foster Administration, is the campus resource for reaching the outside world through the media. The office also publishes the weekly campus newsletter, *This Week at UMass Dartmouth*, and the semi-monthly campus newspaper, the *UMass Observer*. Press releases announcing cultural, intellectual, and social events on campus are sent to newspapers, radio and television in local, regional and national distribution formats. Short feature stories about student achievements are sent to students' hometown newspapers.

The News and Public Information Office assists student, faculty, and staff organizations and individuals in publicizing upcoming

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## Laboratories, Centers, and Institutes

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ing events and newsworthy achievements. It also works closely with other advancement personnel, government officials, and agencies in promoting the university. It is located in the Foster Administration Building (508-999-9765).

### Interdisciplinary Facilities

The university has superior **visual and performing arts facilities** on both the main campus and in a new state-of-the-art downtown New Bedford campus—the renovated Star Store building. The artisanry, fine arts, and design programs offer students full access to contemporary media and computer laboratories. The textile design and weaving programs include CAD-CAM design interface, linking textiles-arts design to mechanical production. Every graduate student in artisanry and design receives an assigned studio space.

In many ways, the university supports **innovative computing and distance learning**. Computer clusters provide access in locations across campus. In addition, rapidly developing facilities support distance learning, and our campus boasts a special emphasis on innovative cyber-education through the World Wide Web. There are many opportunities for graduate students not only to use these facilities but to become involved in their development. Initial contacts are as follows: for computing and distance learning, Dr. Robert Green, Associate Provost for Computing and Information Services, 508 999-8260; and for the Internet, Gregory Stone, Director, Internet Development and Webmaster, 508 999-8077; [gstone@umassd.edu](mailto:gstone@umassd.edu)

A wide variety of **conferences and functions** occur on our campus. Our administrative office supporting these functions is the Conferences and Functions Office, which can be reached at 508 999-8143 or 8139.

Centers and institutes at the university encourage and facilitate multidisciplinary and interdepartmental research and economic development activities. Listed below are examples of the variety of laboratories, centers, and institutes available for research, graduate education, and public service. Many other specific resources and facilities are also described later, in the program sections of this catalogue.

The **School for Marine Science and Technology (SMAST)** is an academic unit of UMass Dartmouth, headed by the Director, Brian Rothschild. The Director sits with the Deans of UMass Dartmouth's colleges as an academic administrator. Responsible for interdisciplinary programs in the areas of marine science, engineering and technology, and policy, SMAST is not further divided into departments. It has a Program Chairperson, and its faculty may hold joint appointments in an academic department in one of UMass Dartmouth's colleges.

A separate chapter of this catalogue describes SMAST's developing academic program, which is a part of the new, nontraditional University of Massachusetts-wide Intercampus Graduate School of Marine Sciences and Technology.

In addition to teaching, SMAST is a major center for research and economic development for UMass Dartmouth and the University of Massachusetts, with faculty and staff engaged in basic and applied marine science and technology investigations. Continuing interdisciplinary research efforts are focused along cross-cutting themes: ocean predicting and monitoring systems; coastal zone systems; ocean communications, tracking and control; fisheries assessment management systems; and aquaculture systems development. A new area is research being conducted in collaboration with the Naval Undersea Warfare Center on unmanned underwater vehicles (UUVs). SMAST concentrates on the watersheds, embayments, and estuaries along the coastline of Massachusetts and the rest of New England, and on the waters of the adjacent U.S. Continental Shelf. This large area is an important natural laboratory because it is characterized by a great diversity of natural and anthropogenic environmental variability.

SMAST is located on 2.6 acres of land in New Bedford along Clark's Cove, which empties into Buzzards Bay. The facility is

approximately 32,000 gross square feet and features 14 research laboratories, including a free-standing acousto/optic tank, and incorporates a 300 gallon/minute flow-through sea water system which provides ambient Buzzards Bay sea water to all laboratories and a large sea water tank room. In addition, it contains the following facilities: a) space to store and maintain marine organisms for use in research and teaching; b) a radionuclide laboratory; c) greenhouse for the growth and long-term maintenance of aquatic photosynthetic organisms under natural light; d) three temperature control rooms for long-term behavioral and physiological experiments and acclimation of marine organisms for culture and reproduction; e) 50-foot coastal **research vessel**, the R/V Lucky Lady; and f) dock for temporary mooring and off-loading of research vessels. Some support areas for the facility include a machine shop, a computer room, a radionuclide laboratory, a conference room equipped with state-of-the-art visual display capabilities and distance learning hardware, and a library/chart room.

The proximity of SMAST to Buzzards Bay, the fishing fleet of New Bedford, and other marine-oriented commercial, research, and educational institutions offers unique resources and opportunities and facilitates the creation of links with industry, governmental agencies, and other research and academic institutions. Those interested may contact Dr. Rothschild or Dr. Joseph Deck, Deputy Director, at 508 999-8925 and are invited to visit SMAST's website at [www.cmast.umassd.edu](http://www.cmast.umassd.edu)

The goal of the **Northeast Regional Aquaculture Center (NRAC)** is to support aquaculture research, development, demonstration, and extension education to enhance viable and profitable U.S. aquaculture, which will benefit consumers, producers, service industries, and the American economy. NRAC is one of five Regional Aquaculture Centers established by the U.S. Congress and funded by the U. S. Department of Agriculture, Cooperative State Research, Education, and Extension Service (CSREES). The Northeast Regional Aquaculture Center develops communications and networking among the many educational, commercial, and state and federal institutions involved in aquaculture, and hosts conferences and workshops. The major function of NRAC is funding multi-state projects in the 12 states of the northeastern U.S. The Executive Director

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may be reached at 508 999-8157/8536, and the Center's website address is [www.umassd.edu/specialprograms/nrac](http://www.umassd.edu/specialprograms/nrac)

UMass Dartmouth is a member of the **National Textile Center**. Our University has been awarded annual grants of between \$500,000 and \$1,000,000 for each of the last four years. The grants support fundamental research on the many technologies in textiles, apparel, and fibers.

The **Advanced Technology and Manufacturing Center (ATMC)** has been created to provide high technology research opportunities for students and faculty, to partner with industry to provide advanced technology solutions to current and future industry needs, and to enhance the educational opportunities of undergraduate and graduate students. The result of this partnership is to produce graduates who are prepared to contribute sooner in the workplace and innovations to enhance the technologic and economic growth of the region. One may contact the Center at 508 999-9116.

The ATMC offers Research and Partnering and Incubator facilities for new and emerging companies, conference space, and multi-tenant short-term rental space for technology companies who want to be near the University for various reasons. The ATMC building is located at the site of the former Kerr Mill in Fall River, near the intersection of Routes 24 and 195, approximately seven miles from the main campus. The building is expected to open in September 2001.

The Research and Partnering activity takes on projects and contracts funded by industry, government agencies and other academic institutions. The faculty and students provide the bulk of the technical expertise. Undergraduate and graduate students provide much of the labor, and the full time ATMC staff provides the coordination and business infrastructure to assure schedule, budget, and contract compliance. This structure provides jobs for students in a realistic technology business environment that is hard to simulate in the classroom. Qualified students may obtain jobs from 10-20 hours per week working on projects in areas such as acoustics, optics, telecommunications, textiles, materials, environmental engineering, manufacturing, intelligent transportation systems and health care technology. Individualized labs are being furnished with specialized equipment. There

will also be core labs for computer software development and mechanical and electrical equipment prototyping.

Incubator facilities in the West Wing use an open format to provide flexible facilities for startup companies. The Commercial Ventures and Intellectual Properties organization of the University will provide business, management, and marketing advice for these companies as well as needed administrative support and infrastructure.

The Conference Center will feature a highly flexible conference space with moveable walls for meetings from 20 to 200 people. A wide variety of presentation technologies, video and teleconference, and internet access are available.

At initial occupancy in September 2001, the university will occupy 60% of the ATMC building. Mass Development Finance will lease the remaining space to appropriate technology companies.

The **Family Business Center** offers support for family business owners through educational outreach, research, and information. Workshops, seminars, how-to books, and camps address issues from leadership succession to family teamwork. Contact the Director, John Bullard, at 508 999-8433.

The **Omer E. and Laurette M. Boivin Center for French Language and Culture** promotes and supports teaching of, research about, and the appreciation and preservation of the French language and culture. Among its many projects are a certificate program in International Business/French, a cultural series of speakers and entertainers, and the annual Boivin Center Scholarship. The Center is directed by Dr. Mel Yoken, Professor of French, who may be contacted at 508 999-8335.

The **Center for Jewish Culture** works to increase understanding and communication between Jewish and non-Jewish people of Southeastern Massachusetts through significant educational and cultural programs. It sponsors workshops, lectures, seminars, and institutes that explore aspects of Jewish culture, often in collaboration with other campus and community organizations. It works to expand the Judaica collection in the library, including an archive on the history of Jewish organizations and individuals in the southcoast area. The center contributes to the support of a

campus chapter of Hillel, the international Jewish student organization. Co-Directors Dr. Janet Freedman, Professor of Education (508 999-8269), and Dr. Lewis Dars, Professor of Economics (508 999-8050), may be contacted for information.

The **Arnold M. Dubin Labor Education Center** was established in 1975 to meet the educational needs of workers as members and leaders in the labor movement and promote understanding and cooperation between labor and business, religious, environmental, and other civic and community organizations. The Center provides non-credit courses, seminars, and special programs; offers support and consultation to the educational programs of labor organizations; provides workers and unions with technical and informational resources; serves as a liaison between the university and labor organizations on many levels including worker literacy, training, and economic development activity; and offers a Certificate in Labor Studies and job-related training through the Workplace Education Project. Contact José A. Soler, Director, at 508 999-8007; and for the Workplace Education Project, Lisa Jochim or Andrea Muller, Co-coordinators, at 508 999-4047.

The **Center for Policy Analysis** is a multidisciplinary research unit dedicated to the creation and dissemination of knowledge that facilitates economic, social and political development. The Center aims to enhance the economic and social well-being of citizens by providing research, information, and technical assistance to government, non-profit and educational agencies. The Center seeks to erode the walls between research and teaching by training students in the techniques of applied social science and by conducting University and community-based educational programs. The Director, Dr. Clyde W. Barrow, may be contacted at 508 999-8943.

The **Center for Portuguese Studies** coordinates and develops academic programs in Portuguese language, literature, and area studies; and develops interdisciplinary programs and services for the campus and community. The Center has received grant support from the Portuguese government and the Commonwealth of Massachusetts, the Camões Institute, the Gulbenkian Foundation, the Luso-American Development Foundation, the local business community, and many friends of Portugal and of UMass Dartmouth. The Center is building a resource library and archive, and

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funds research, development, and educational projects. The Center hosts comprehensive summer institutes and a range of public and campus events through the academic year. Its Director, Dr. Frank Sousa, Professor in Portuguese, may be contacted at 508 999-8255.

The **Center for Teaching and Learning** promotes effective teaching in the K-12 schools of the region and at UMass Dartmouth. The Center builds partnerships among educators in area school districts and university faculty to work together to improve curriculum and programs and to offer professional development workshops, seminars, graduate courses and teacher and administrator leadership training. The Center actively seeks to involve K-12 educators with university faculty in design and delivery of teacher pre-service and in-service programs. Through Project Impact, the Center helps schools to implement standards-based mathematics and science programs. To promote effective teaching on campus, the Center provides a program of faculty development that includes seminars, workshops, faculty partnerships, new faculty orientation, colloquia, and access to a library of resources on teaching and learning. The faculty development program seeks to promote active and collaborative learning, effective classroom interactions, classroom-based assessment to inform teaching practice, and effective use of instructional technology. Contact Dr. Marjorie Condon, Executive Director, at 999-9182.

The **Center for Rehabilitation Engineering** was established to improve the quality of life of disabled individuals by the creative application of engineering knowledge and technology. The Center develops innovative rehabilitation equipment, techniques, and services and makes these available to agencies and individuals with disabilities. The continuing success of this organization, which has received regional and nationwide recognition, is aided by the volunteer work contributed by students and staff. Professor Lester Cory of Engineering is the director; contact him at 508 999-8482.

The new **Center for Indic Studies** disseminates understanding of issues relating to the arts, philosophy, culture, societal values, and customs of India; promotes international harmony through a mix of ancient and modern values; promotes studies on issues germane to contemporary Indian society and their relevance to the evolving multicultural global society, and promotes

awareness among Americans of contemporary India and its demographic diversity in the 21st century. Bal Ram Singh, Professor of Chemistry (508 999-8588), is the Director.

The **Gerontology Center** is a multi-disciplinary entity, without walls, dedicated to the development and maintenance of programs and courses in the field of gerontology. The Center strives to forge ties with the community at large, by conducting educational and research-based activities. The Gerontology Center works closely with the academic offerings in gerontology, a certificate and an academic minor described in the chapter of this catalogue on Interdisciplinary Programs. The Director of the Gerontology Center is Shaleen Barnes, who can be reached at 508 999-9299.

UMass Dartmouth's Charlton College of Business operates a **Small Business Development Center** that serves all of southeastern Massachusetts, including the islands. Funded jointly by the Small Business Administration and the Massachusetts Office of Business Development, the Center provides free one to one counseling to prospective and existing small businesses on such topics as business plan development, finance, cash flow management, human resource issues, marketing, and international trade. Training programs are offered for a nominal fee on a wide variety of management issues. The Director can be contacted at 508 673-9783.

#### **Robert F. Kennedy Assassination Archive**

The Robert F. Kennedy Assassination Archive has achieved national recognition and usage as a unique and voluminous collection of police and FBI reports, audio and video tapes, transcripts, and private papers about the Robert Kennedy assassination. An enduring project of Political Science Professor Philip H. Melanson and the University Library, the Archive stands as a major tribute to fundamental rights to information. The Archive is located on the fourth floor of the University Library and can be reached at 508 999-8686.

The **Slade's Ferry Bank Center for Business Research** is a unique and affordable business assistance center located in the Charlton College of Business. The Center is dedicated to facilitating the

growth of the region's businesses by providing an economic alternative for meeting business needs for research, training, and consulting in the areas of Accounting and Finance, Information Systems, Management, and Marketing. Through the Center, businesses can secure direct access to the full resources of the University, expertise of the Charlton College of Business faculty, and assistance from selected faculty-supervised business students. Its director, Dr. Nora Ganim Barnes, may be contacted by phone at 999-8756 or e-mail at nbarnes@umassd.edu.

#### **International Student Leadership Institute (ISLI)**

Yearly the university offers this program from the University of Notre Dame to New England high school students. ISLI develops the leadership skills of the participants and encourages them to seek opportunities for personal advancement in the service of others. Students of the university participate as group leaders. Dr. Victor P. Caliri of Psychology (508) 999-8341 and John Fernandes (508) 999-8718 are the contact persons.

#### **Spotlight Program**

This cultural enrichment program invites high-potential area high school students to experience a series of lectures and workshops during the academic year on the UMass Dartmouth campus. It is one of the activities of the UMass Dartmouth Projects for High Learning Potential. Professor William Nelles is the contact person at 508 999-8278 or you may call the Program Assistant, Diane Terrill, at 508 999-8899.

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## The Arts in Exhibit and Performance

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*Many programs and events contribute to the experiences the university offers to students, faculty, staff, and the greater community.*

### **Musical Ensembles**

Year-round the university sponsors musical offerings of a rich variety, featuring guest artists from around the world from a wide array of musical styles, from classical to world music.

A series of on-campus concerts features the African Drumming and Dance Ensemble, various jazz ensembles, Concert Band, and Chorus. Music Department faculty coordinate these concerts, and students from all colleges of the university participate.

The College of Visual and Performing Arts sponsors a Guest Artist Series each semester, which features instrumental and voice performances and master classes from internationally-known artists.

### **Film Series**

An international film series is organized each semester by Dr. Charles White of the English Department, and videos of the films shown then become a permanent part of the library collection.

### **Visual Arts Events**

Visiting artists are invited each year to the campus, where they offer workshops and critiques to art students and present exhibitions and shows that are open to the university and community. Students are encouraged to experience the contemporary art world through bus trips each semester to museums and galleries in Boston, Providence, New York, and Hartford.

### **Theatre Company**

The UMass Dartmouth Theatre Company offers presentations in which students may be joined by university staff or faculty and by community people as actors and technicians.

### **Summer Events**

UMass Dartmouth hosts a number of events in summers. The Fourth-of-July Celebration, complete with music, food, and fireworks, has become a popular annual event. The Art Education summer seminars and workshops have become a popular offering for students in the region and from around the nation.

### **UMass Dartmouth Art Gallery**

The UMass Dartmouth Art Gallery located in the new Star Store facility in New Bedford offers contemporary exhibitions which are often supplemented by video series and gallery talks. Student and faculty shows occur annually. The Gallery thus serves as a valuable extension of the classroom and enriches the artistic environment of the university and surrounding community.



## Key to the Listings of Courses and Programs

### Program Requirements

A general statement for each college is followed by separate descriptions of each department in the college and its programs. General requirements that apply to all students in a college are given in the section describing the college. Requirements specific to the programs follow in the sections devoted to each department.

Although the program requirements are presented in full detail, there are many aspects of program planning which will require each student to consult regularly with an academic advisor, and certain decisions require specific permission of the advisor.

### Course Descriptions

Following the program descriptions and requirements is a listing of the courses from that department. To learn the selection of courses that is to be offered in any one semester or term, consult the semester *Course Listings* booklet available at the Office of the Registrar.

This catalogue uses a systematic format for course descriptions. *Two examples follow, with explanatory notes:*

	Notes
<b>BIO 314</b> four credits	<i>1a, b</i>
<b>General Ecology</b>	2
3 hours lecture, 1 hour laboratory	
lecture, 3 hours laboratory	3
Prerequisites: BIO 121, 122	4
General ecology considers the general field of interrelationships between organisms and their environments with emphasis on the biology of populations, and includes laboratory and field studies of terrestrial, fresh water and marine environments. Extended field trips, some of which will be held on weekends and/or holidays, are an integral part of this course.	5
<b>ARH 150</b> three credits	<i>1a, b</i>
<b>Studies in Visual Culture: Renaissance to Modern Art</b>	2
Prerequisite: ARH 125 or permission by instructor	4
Surveys painting, sculpture, and architecture from the Renaissance to Impressionism. FOU 125 and 150 need not be taken in sequence. (Formerly ARH 102)	5

### 1a

**Department Designation and Course Number.** Departments use a standard three-letter abbreviation to identify the department or field of the course; the courses shown are for Biology and Art History. The course number then identifies each course uniquely. The 100-level courses are introductory-level; 200, intermediate-level; 300 and 400, advanced and specialized-level; 500 and 600, graduate level. It is generally assumed that students may take the more advanced-level courses only with an appropriate foundation in the field, even if specific prerequisites are not stated.

### 1b

**Number of Credits.** Each course carries the number of credits specified. The more credits, the greater the obligation the course carries for in-class and out-of-class work. In courses that use the lecture or lecture-discussion format, there is a one-to-one relationship between the number of credits and the number of class contact hours each week (based on a 50-minute period per hour). See note 3, below.

### 2

**Course Title.** Each course is given a unique, descriptive title that indicates its topic and content.

### 3

**Class Type and Contact Hours.** Some courses use formats that differ from the lecture or lecture-discussion type. For example, the Biology course here exemplifies a combination of lecture and laboratory experiences. As shown, the number of class contact hours per credit may exceed the number for a class that uses the lecture or lecture-discussion formats only. When there is no annotation, the course uses the lecture or lecture-discussion format. The Art History course exemplifies this. Some course listings have a blanket annotation that applies to an entire sequence of courses.

### 4

**Prerequisites.** Stated here are any specific courses (or other requirements) that should have been completed satisfactorily as a condition for taking the course. Prerequisites ensure adequate preparation and maintain an appropriate order in the student's progression through the topics of study in the field. As stated above, even if specific prerequisites are not listed, generally students may take more advanced-level courses only with an appropriate foundation in the field. **Corequisites** are shown for some

courses. These are like prerequisites but indicate another course or other experience that is to occur at the same time that the student takes the present course.

### 5

**Course Description.** The course description indicates the nature and scope of the course. Often, information is also given about the type of work for the course, as is shown in the Biology example. Course descriptions may close with a special-purpose annotation, as is the case with the Art History course; that annotation indicates a previously-used course number and informs the reader that this new course occupies a parallel role in the curriculum to that of the previous course and that their content is similar. Course descriptions do not indicate the status of a course to fulfill requirements of an academic program. For this information, *Catalogue* users should consult the program requirements listings.

*For each course attempted, the course number, course title, and the number of credits are recorded on the student's transcript, together with the grade received.*

### Courses for General Education

Many different courses satisfy the various requirements of the General Education program. (General Education requirements are summarized in the Academic Regulations and Procedures section of this catalogue.)

Courses identified as Permanently Designated for a General Education requirement are identified in the catalogue's course listings by the following **Key**.

<b>C</b>	Cultural and Artistic Literacy
<b>E</b>	Ethics and Social Responsibility
<b>G</b>	Global Awareness
<b>D</b>	Diversity
<b>I</b>	Information and Computer Literacy, Advanced Course
<b>M</b>	Mathematics
<b>S</b>	Natural Science and Technology
<b>W</b>	Writing-Intensive Course
<b>O</b>	Oral Skills

A detailed listing of courses that satisfy these requirements is published separately from the catalogue.

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