

Winter 1984

Rollins College Catalog Winter Term 1984

Rollins College

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WINTER TERM

1984

ROLLINS COLLEGE

Winter Park, Florida

THE ROLLINS COLLEGE WINTER TERM

Scholarly inquiry, creativity, experimentation, exploration -- all are fostered by the lively winter term curriculum of Rollins College. January offers faculty and students the opportunity to devote their energies to a single course or project.

Students may choose:

- to delve into subjects they've never tried before
- to dance, act, or play an instrument for the first time
- to sharpen research skills in the library or the laboratory
- to explore unusual topics and unconventional ways of learning
- to put theory into practice through internships
- to undertake senior projects in preparation for graduate study
- to take courses involving travel to foreign countries or other regions of the United States
- to exchange places with students from other colleges and universities
- to study with visiting professors from universities abroad or from other American institutions.

Adding to the vitality of the winter term are extracurricular activities including plays, films, concerts, special lectures and sporting events.

In the center of the academic year, the winter term is an essential part of the Rollins educational experience.

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WINTER TERM CALENDAR

NOVEMBER 1983

- 4 Deadline to submit winter and spring term independent study proposals (internships, tutorials, and research projects) to the faculty sponsor for departmental approval.

DECEMBER 1983

- 3 Registration for winter and spring terms in Field House.

JANUARY 1984

- 4 Winter Term begins
- 4 Exhibition of Aboriginal Art from Australia through the month of January, Cornell Fine Arts Center, Tuesday-Friday, 10:00-5:00 and Saturday-Sunday, 1:00-5:00
- 5 Men's Basketball vs U. of Chicago, EAFH, 8:00 p.m.
- 5 Reception for Colgate students, French House Lounge, 3:00-5:00 p.m.
- 6 Reception for Guest Lecturers, Faculty Club, 3:00-5:00 p.m.
- 6 Women's Basketball vs U. of Missouri, EAFH, 7:30 p.m.
- 6 Men's Formal Rush begins
- 7 Men's Basketball vs Pfeifer College, EAFH, 8:00 p.m.
- 8 Rollins College Cinema Society: Stalker, Bush Auditorium, 7:30 p.m.
- 8 Rollins College Concert Series: Florida Symphony and Rollins Chamber Orchestra (Sylvia Reynolds, piano), Annie Russell Theatre, 4:00 p.m.
- 10 Women's Basketball vs Eckerd College, EAFH, 5:15 p.m.
- 10 Men's Basketball vs Eckerd College, EAFH, 8:00 p.m.
- 11 Alliance Francaise, Hauck Auditorium, 7:30 p.m.
- 13 Men's Basketball vs Biscayne College, AWAY, 7:30 p.m.
- 13 Women's Basketball vs Florida International U., EAFH, 7:30 p.m.
- 15 Music in the Chapel: Rick Ross, organ, Knowles Memorial Chapel, 8:00 p.m.
- 17 Women's Basketball vs Florida Southern, EAFH, 5:15 p.m.
- 17 Men's Basketball vs Florida Southern, EAFH, 8:00 p.m.

- 20 Women's Basketball vs Flagler College, EAFH, 5:15 p.m.
- 20 Men's Basketball vs Florida Institute of Technology, EAFH, 7:30 p.m.
- 21 Women's Basketball vs Augusta College, EAFH, 6:00 p.m.
- 21 Men's Basketball vs Flagler College, EAFH, 8:00 p.m.
- 21 Fraternity Pledge
- 21 Travelventure: Scotland, Bush Auditorium, 2:00 and 8:00 p.m.
- 22 Rollins College Cinema Society: The Vulture, Bush Auditorium, 7:30 p.m.
- 23 Australia Day
- 24 Women's Basketball vs St. Leo College, EAFH, 5:15 p.m.
- 24 Men's Basketball vs St. Leo College, EAFH, 8:00 p.m.
- 27 Grandparents' Weekend
- 27 Women's Basketball vs U. of Tampa, AWAY, 5:15 p.m.
- 27 Men's Basketball vs U. of Tampa, AWAY, 8:00 p.m.
- 27/28 Play: The Glass Menagerie, Annie Russell Theatre, 8:00 p.m.
- 29 Rollins College Concert Series: Florida Symphony and Rollins Chamber Orchestra (Christopher Rex, organ), Annie Russell Theatre, 4:00 p.m.
- 31 Winter Term ends
- 31 Women's Basketball vs U.C.F., AWAY, 5:15 p.m.
- 31 Men's Basketball vs U.C.F., AWAY, 8:00 p.m.

WINTER TERM COURSES

| <u>OFF-CAMPUS</u> | | <u>PRE-REQ</u> | <u>INSTRUCTOR</u> |
|-------------------|--|---|-------------------|
| A 236 | The National Gallery: A Studio Tour | 1 studio course | Peterson |
| B 294 | Marine Biology | Consent | Richard |
| BA 363 | Comparative Western Legal Cultures: London and Paris | Consent | Newman |
| ES 270 | Environmental Literata III | Consent | Scheer |
| FR/LACA 150/450 | A la Martinique | Consent | Lima |
| GN 100/300 | The Cultural and Economic Environment of Munich and Vienna | Consent | Bonnell |
| H 294 | The Culture of China: Past and Present | Consent | Edmondson |
| IC 230 | Israel: The Past in the Present | Consent | Ser |
| IC 274 | Field Research in Animal Behavior and Ecology: Costa Rica | Consent | Clarke/ Zucker |
| RN 395 | The U.S.S.R. 1984 | Consent | Boguslawski |
| SH/LACA 150 | Mexico, D.F.: A Nation Through Its Capital | Consent | Kerr |
| TA 360 | Theater-Humanities: New York City | Humanities, theater, music, or art course | Rodgers |

ANTHROPOLOGY/SOCIOLOGY

| | | | |
|--------|---|--------------------|------------|
| AS 230 | Archaeology of Central Florida | | Stewart |
| AS 296 | Nazi Germany and the Holocaust | Consent | Weiss |
| AS 310 | The Sociology of the Occult: An Analysis of the Works of Carlos Castaneda | | Glennon |
| AS 328 | Women's Biology, Women's Health | | Lauer |
| AS 390 | Law, Crime and Social Control | | Van Sickle |

ART

| | | | |
|--------|---|--------------------------------|----------|
| A 215 | Archaeological and Art-Historical Study of the Greek World, 8th-4th Centuries, B.C. | | Woods |
| A 292 | Raku | | Larned |
| A 294 | Indian Culture and Art of the Southeastern United States (C) | Soph, Jr, Sr | Lemon |
| A 391* | Methods of the Masters | A 131, A 231 A 222, Consent | Peterson |

*Course to be offered if the instructor's off-campus study is not conducted.

BIOLOGY

| | | | |
|--------|-------------------------------|---------------------------------------|-----------------|
| B 191* | Psychobiology | | Richard Gregory |
| B 292 | Issues in Nutrition | | Coleman |
| B 351 | Population Biology | Proficiency in algebra, Soph, Consent | |
| B 390 | Human Development Biology (N) | Soph, Jr, Sr, B 120, Consent | Klemann |

BUSINESS STUDIES

| | | | |
|---------|---|-----------------------------------|-----------------------|
| BA 263 | The Language of Accounting | No students with BA 325 or BA 326 | Satcher |
| BA 308 | Investments | Jr, Sr | Evans |
| BA 380 | Executive Decision Making | Consent | Meadows/ Currie |
| BA 381 | Accounting and Society | No students with BA 325 or BA 326 | West |
| BA 382* | Landmark Cases: A Study of Social Forces and the Development of Law | Jr | Newman |
| BA 393 | Ethics and Social Responsibility, A Business Perspective (V) | Jr, Sr | Hepburn/ Calderone |

CHEMISTRY

| | | | |
|-------|---------------------------------|------------------|------------|
| C 219 | Chemical Synthesis and Analysis | C 120 or Consent | Eng-Wilmot |
| C 230 | Chemistry of Natural Products | C 220, Consent | Blossey |
| C 240 | Organic Qualitative Analysis | C 220, Consent | Ramsey |

COMPUTER SCIENCE

| | | | |
|--------|-----------------------------------|--|-----------|
| CS 150 | Introduction to Computing (Q) | | Child, G. |
| CS 160 | Introduction to Computing Science | Science and Math majors, no students with CS 150 | Bowers |
| CS 297 | Design of an Assembler | CS 350 | Hart |
| CS 298 | Interactive Computer Graphics | CS 260, CS 261 | Warden |

ECONOMICS

| | | | |
|--------|---------------------------------------|------------------------------|-----------|
| EC 227 | Growth and Development of Urban Areas | Intro. social science course | Henderson |
|--------|---------------------------------------|------------------------------|-----------|

*Course to be offered if the instructor's off-campus study is not conducted.

| | | | |
|--------|--|----------------------------|----------|
| EC 357 | Seminar in Economic Development: The Caribbean Basin and the Reagan Initiative | EC 211, EC 212 | Kypraios |
| EC 400 | Economic Policy Analysis | EC 303, EC 304, Consent | Hales |
| EC 425 | Personal Economics | Consent, Sr | Taylor |

EDUCATION

| | | | |
|--------|--|--|--------------------|
| ED 232 | A Critical Examination of Educational Innovations | | Johnson- Jauron |
| ED 264 | Perceptions of Self, School, and Society | 100-level course in educ. or soc. science | Gee |
| ED 291 | Directed Observation and Field Experience | Education major | DeTure |

ENGLISH

| | | | |
|--------|--|--------------------------|----------------------|
| E 240 | The Art of Biography | | Cohen |
| E 270 | Coming of Age in America | | O'Sullivan |
| E 280 | Versecraft | | Nordstrom |
| E 282 | Three Black American Women Writers: Hurston, Morrison, Walker | | Clark |
| E 285* | If Only I Had Enough Time to Read | | Ser |
| E 320 | F. Scott Fitzgerald: The Man, The Works | Jr, Sr, Consent | Pastore |
| E 330 | Banned in Boston: Novels Censored in 20th Century America | E 101, E 150, Consent | Carson |
| E 350 | Chaucer and the Art of Love | | Phelan |
| E 354 | The Plays of Tennessee Williams | Consent | Neilson/ Starling |

ENVIRONMENTAL STUDIES

| | | | |
|--------|---|--|--------|
| ES 222 | Alternatives to Chemical Agriculture | | Allen |
| ES 260 | The World's Changing Landscape | | Sale |
| ES 391 | Principles and Practices of Urban Planning | | Sellen |

FOREIGN LANGUAGE

| | | | |
|-----------------|-----------------------|---------------------------------|---------|
| FR 195/ 495* | The French Cinema | | Lima |
| GN 390* | German <u>Novelle</u> | German majors GN 201, GN 202 | Bonnell |

*Course to be offered if the instructor's off-campus study is not conducted.

| | | | |
|----------------|---|----------------------------------|--------------|
| RN 340* | The Land of the Firebird: A Survey of Russian Culture | Consent | Boguslawski |
| SH 175/ 475 | The Spanish Civil War: One Million Dead | Consent | López-Criado |
| SH 295 | The Spanish Players | SH 201, Consent | Borsoi |
| SH 460* | Dreamtigers in the Labyrinth | 300-level Spanish, Consent | Kerr |

HISTORY

| | | | |
|--------|--|---------|-----------|
| H 150 | Conflict in Northern Ireland | | Barcroft |
| H 194 | Watergate: What Was It? What Does It Mean? | | Lane |
| H 341 | Era of the American Revolution | Consent | Williams |
| H 397* | The Russian Revolution | | Edmondson |

LATIN AMERICAN AND CARIBBEAN AFFAIRS

| | | | |
|--------------------|---|--|---------|
| LACA/AS 259 | Peoples and Cultures of Latin America (C) | | Pequeño |
| LACA/PO 217/317 | Latin America and the United States in World Politics | | Gil |
| LACA/PO 228/290 | Latin Americans in the United States | | Valdes |

MATHEMATICS

| | | | |
|--------|----------------------------|----------------|---------|
| M 110C | Applied Calculus Continued | M 110, Consent | Naleway |
| M 196 | Linear Programming | | Naleway |

MUSIC

| | | | |
|--------|---|---|--------------------|
| MU 196 | Music for Beginners or "They Laughed When I Sat Down To Play . . ." | No formal musical instruction, Consent | Gallo/ Reynolds |
|--------|---|---|--------------------|

PHILOSOPHY/RELIGION

| | | | |
|--------|---|---------|-------------|
| PH 196 | Human Potentials: Theory and Experience | Consent | Edge |
| PH 205 | Science, Technology and Human Values (V) | | Cook |
| PH 245 | Patterns of Spiritual Growth in Modern Literature | | Bauer-Yocum |
| PH 247 | Philosophy of the Family | | Ketchum |
| R 195 | Readings in Western Religion | | Darrah |

*Course to be offered if the instructor's off-campus study is not conducted.

PHYSICS

| | | | |
|-------|---|---------|------------|
| P 248 | Digital Electronics and Micro-computers (N) | Consent | Carson, R. |
|-------|---|---------|------------|

POLITICAL SCIENCE

| | | | |
|--------|--|--------------------------------|---------|
| PO 320 | The Weaker Sex: Women in Political Thought | PO 120 or course in philosophy | Greyson |
|--------|--|--------------------------------|---------|

| | | | |
|--------|-------------------------------------|--|---------|
| PO 383 | Internal Politics of the Arab World | | Spencer |
|--------|-------------------------------------|--|---------|

PSYCHOLOGY

| | | | |
|---------|---|-------------------|---------|
| PY 366* | Play: Structure and Function | PY 101 | Zucker |
| PY 381 | Precise Behavior Management: Applications to Weight Control | PY 101, Consent | Ruiz |
| PY 382 | Advanced Developmental Psychology | PY 238 or Consent | Farkash |

SCIENCE

| | | | |
|---------|---------------------|--|--------|
| SC 270* | Weather and Climate | | Scheer |
|---------|---------------------|--|--------|

THEATER ARTS AND SPEECH COMMUNICATION

| | | | |
|----------------|---|--|----------|
| SP 250 | Zen and the Art of Communication | | Veilleux |
| TA 159/ 359 | Theater Practice | Consent | Mendez |
| TA 239 | The Elizabethan Theater or Brush Up On Your Shakespeare | | Nassif |
| TA 275 | Basic Techniques of Tap and Character Dance for Music Theater | | Gale |
| TA 292 | Intermediate Ballet and Choreography | 2 terms of ballet with instructor or Consent | Mésavage |

INTERDISCIPLINARY COURSES

| | | | |
|--------|---------------------------|---|--------|
| IC 102 | Psychology of Competition | Previous or current involvement in a competitive activity | Howell |
|--------|---------------------------|---|--------|

*Course to be offered if the instructor's off-campus study is not conducted.

| | | |
|--------|---|--|
| IC 150 | Ashtanga Yoga: An Introduction to <u>The Philosophy of Patanjali</u> | Gilbert |
| IC 260 | Searching and Citing Scientific Literature | One of the following courses: Anderson/ Eng-Wilmot C 121, B 121, P 202, M 111, ES 291, ES 293 |

GUEST LECTURERS

Each January Rollins attracts outstanding scholars as guest lecturers, affording students the opportunity to study with professors from distant places without leaving campus. Among our distinguished guests are instructors from institutions which host Rollins overseas terms. Their presence enriches the winter term curriculum and encourages student interest in international study programs.

STEPHEN BARCROFT, Ph.D., Trinity College. Dr. Barcroft comes to Rollins from Dublin where he teaches History and Political Science in the Rollins Program in Ireland. He holds a Ph.D. in History and has many years of teaching experience to his credit, including four years at Haile Selassie I University in Addis Ababa and over ten years at Trinity College, Dublin. Dr. Barcroft is the Founder and Director of the Dublin Tutorial Center, Rollins' host institution. His research and publications focus upon the League of Nations.

NORRIS BERKELEY CLARK, B.A., Colgate University, M.A., Wesleyan University, Ph.D., Cornell University. Dr. Clark is Assistant Professor of English at Colgate University. A specialist in American Studies, he is the author of The Black Aesthetic Revisited, which considers the Black Aesthetic movement of the 1960's and 1970's in the context of black American literature and American literature.

DAVID H. GEE, B.A., M.A., St. John's College, Oxford, D. Phil., Sussex University. Dr. Gee is the 1984 Cole Scholar. He is Housemaster and Head of History at Shrewsbury School, Radbrook, Shrewsbury, England. In addition to history, his academic interests include English, foreign languages and religious thought. While at Shrewsbury he has taken an active role in both music and drama. His research interests have taken him to France, West Germany, Italy, Denmark, Sweden and now the United States.

FEDERICO GUILLERMO GIL, B.A., Instituto de La Habana, J.D., D.Soc.Sc., University of Havana. Dr. Gil, Kenan Professor Emeritus of Political Science at the University of North Carolina, has won international recognition for his teaching and scholarship in the field of Latin American Studies. He directs the Institute of Latin American Studies at U.N.C. and is a Research Professor at the U.N.C. Institute for Research in Social Science. Dr. Gil is editor of the Latin American Politics Series published by Allyn and Bacon, Inc., serves on the editorial boards of several journals and is the author of numerous books and monographs.

WILLIAM HENDERSON, B.S., M.A., Ph.D., The Ohio State University. Dr. Henderson, who holds the John E. Harris Professorship of Economics at Denison University, is a specialist in public finance and urban economics and has published extensively in those fields. He is active as a planning consultant both to government agencies and to educational institutions. In 1982 the Joint Council on Economic Education awarded Dr. Henderson First Place in the College Division of the 20th Annual Teaching of Economics Award.

GAIL JOHNSON-JAURON, B.A. with distinction, Rollins College, Ed.M., Ed.D., Harvard University. Dr. Jauron's areas of specialization include philosophy of education, non-traditional education, and moral philosophy, particularly in relation to issues of human rights. Since completing her doctorate she has spent three years working in an alternative education program.

COLIN JOHN SALE, B.A., University of Sydney, M.S., the University of London. Colin Sale teaches Environmental Studies in the Rollins Program in Sydney, Australia. He is currently Head of the Geography Department at the Sydney Institute of Education. Among his many publications are several comprehensive texts on Australian geography.

DANIEL E. WOODS is Professor Emeritus of Classics and Archaeology at Manhattanville College in Purchase, New York, and has been a Winter Term Visiting Professor at Rollins for the past seven years. Professor Woods, an internationally known archaeologist, has published several monographs on his excavations and is a leading authority on Greek and Roman Spain.

For the past twenty-five years, under the auspices of Manhattanville College and the W.L. Bryant Foundation, Professor Woods has directed excavations of the Roman colony of Pollentia on the Spanish island of Majorca. On the site he, along with a group of colleagues and graduate students, recently uncovered roman houses, a porticoed street, and an early Christian cemetery of the 4th and 5th century A.D.

GENERAL INFORMATION

REGISTRATION PROCEDURE

A combined winter and spring term preregistration will be held from October 31 through November 4, with the final registration for both winter and spring terms in the Field House on Saturday, December 3. Students will receive a list of newly opened sections and notification of any alterations to their original schedule. They may then drop and/or add classes for winter and spring terms. Regardless of the nature of the study, each student is expected to devote a minimum of 40 hours per week to his or her academic work. No student may register for more than one course or independent study project during the winter term.

WINTER TERM GRADING

Off-Campus Group Studies and Individual Off-Campus Projects are taken on a Credit/No Credit basis; however, if both the student and the instructor agree, the study may be taken for a letter grade. In the latter case, the instructor simply forwards the letter grade to the Registrar at the end of the term without prior notification.

A winter term course taken on a Credit/No Credit basis is not counted toward the four such courses which may be taken in the fall or spring terms, but it must be an elective. In order to earn credit, a student must achieve at least a C- average in the course.

GENERAL EDUCATION REQUIREMENTS

Courses which satisfy the general education requirements are designated by the appropriate letters within the course listings and course descriptions. The only general education requirements that can be satisfied during the winter term are Composition Reinforcement, designated by the letter "R"; Quantitative Reasoning, designated by the letter "Q"; Knowledge of Other Cultures, designated by the letter "C"; The Natural World, designated by the letter "N"; and Decision Making and Valuation, designated by the letter "V".

OFF-CAMPUS STUDIES

Although travel is an attractive feature of off-campus studies, the experience involves much more than sight-seeing. Various academic requirements will have to be met, such as preliminary reading and preparation for on-site seminars.

Early registration for off-campus courses is set for October 11-15. Students interested in any of these offerings should contact the instructor and discuss the academic goals, itinerary, and cost of the program. To register, one should pick up a card from the instructor and turn it in at the Registrar's Office. In the event that an off-campus course cannot be conducted, the registered student will be notified.

INDEPENDENT STUDIES

Three types of independent study are offered during the winter term: tutorials, research projects and internships. Students planning to take an inde-

pendent study should pick up the appropriate form at the Registrar's Office and consult with the faculty member who will sponsor the project. An independent study requires considerable planning and consultation with the faculty sponsor and, in the case of an internship, with the supervisor. Students are therefore urged to begin their preparation well in advance of the registration deadline. The completed forms for winter term independent studies must be approved by the faculty sponsor's department and forwarded to the Registrar by Friday, November 4th.

ROLLINS COLLEGE/COLGATE UNIVERSITY EXCHANGE

For the seventh year, Rollins will offer a winter term student exchange with Colgate University in Hamilton, New York. Under this agreement, Rollins accepts one Colgate student for each Rollins student who attends Colgate.

Because of housing limitations, Rollins participants must agree to allow Colgate students to stay in their rooms. If a double room is involved, a written statement from the roommate agreeing to this arrangement must be submitted.

Applications for this program are accepted on a first-come-first-served basis, and all students in good academic standing are eligible. Interested students should contact the Associate Dean of the Faculty (Room 106, Warren Administration Building) to obtain catalogues and application forms. Because of the limited number of students who can participate in this program, participants should also carefully decide about the winter term course to be taken at Rollins in the event of non-acceptance into the Colgate program. Applications must be received in the Associate Dean's Office NO LATER THAN NOVEMBER 1ST.

ENGINEERING COURSES AT WASHINGTON UNIVERSITY IN ST. LOUIS

Through a cooperative agreement with the School of Engineering and Applied Science at Washington University in St. Louis, Missouri, pre-engineering students at Rollins College have the opportunity to enroll in two-week intensive engineering courses on the Washington University campus. These courses are specifically designed for pre-engineering students attending colleges that participate in 3-2 agreements with Washington University. They allow students to explore and confirm interests in engineering and to sample the various engineering curricula. They also provide students and faculty the opportunity to verify the student's ability in engineering and applied sciences. Rollins will accept these three-semester-hour courses as equivalent to one Rollins winter term course. In addition, the student will earn credit which will make the completion of a degree in engineering at one of the 3-2 cooperative institutions easier. The cost will be for tuition, housing, and meals. The student should also allow for travel expenses and money for incidentals. Students who qualify for this program will receive a refund for that portion of their Rollins tuition which they have paid and a refund for a portion of their board fee. However, since the College must reserve rooms, it is not possible to refund any portion of the Rollins housing charge. Washington University at St. Louis will provide to deserving students a two-thirds tuition remission upon the recommendation of the Rollins Coordinator.

The four courses listed below will be offered for the January term. Each course will involve three lecture sessions and an independent study or laboratory each day. The student may take only one course during the winter term.

INTRODUCTION TO CHEMICAL ENGINEERING

ENGINEERING APPLIED TO BIOMEDICAL PROBLEMS

ENGINEERING MECHANICS I

INTRODUCTION TO SYSTEMS SCIENCE AND MATHEMATICS I

For detailed information on this program and application forms, students should see Dr. Donald Griffin, Coordinator of the 3-2 Engineering Program. DEADLINE FOR APPLICATION IS NOVEMBER 15, 1983.

JANUARY TERM AT THE UNIVERSITY OF TEXAS SCHOOL OF ALLIED HEALTH SCIENCES

Students interested in exploring health careers may participate in the January Term Program in Allied Health Sciences at Galveston (UT-SAHS). In addition to a broad overview of allied health professions the program offers the opportunity to become familiar with allied health concepts, ethics in health care, the team approach to health care delivery and admissions requirements for allied health programs. January Term students participate in regular classes, clinical sessions, laboratories, and classes and events conducted just for them.

The School of Allied Health Services is a part of the University of Texas Medical Branch, located on Galveston Island. This barrier island, two miles off the Texas mainland, has a mild, semi-tropical climate perfect for year-round outdoor activities.

To be eligible for admission students must have a minimum GPA of 2.0 and some background in the sciences at the college level. Students who have paid tuition for Rollins winter term pay an additional \$50 administrative fee to UT-SAHS plus their room and board for the three weeks spent in Texas.

Applications must be received by the University of Texas by December 1. Because total enrollment is limited to twenty, students should plan to apply by November 1. For detailed information and application forms, students should see Dr. Eileen Gregory, Chair of the Health Sciences Advisory Committee.

OFF-CAMPUS STUDIES

A 236 THE NATIONAL GALLERY: A STUDIO TOUR

Pre-Req: One studio course / Prof. Thomas Peterson / Office: CO

The objective of this course is to provide an opportunity that will combine the viewing of works of art in major Washington, D.C. museums with the further study of painting and the production of paintings on campus. One week will be spent in Washington and three weeks at Rollins. The choice of this format takes advantage of the flexibility of the winter term to offset the disadvantage which the painting student normally experiences of not having ready access to a wide range of original master works to study. By visiting the National Gallery, the Hirshhorn Museum and the Phillips Collection, students will have broad and rich contact with prime examples of painting and sculpture, both past and present. In its instructional aspect, the tour will direct attention to specific stylistic, aesthetic and technical problems which, in turn, will be related to campus-based studio projects. A short descriptive and analytical paper will support these projects.

Means for Evaluation: Insight, motivation and, ultimately, the level of creative achievement are major factors in determining a final grade. Less experienced students will not be penalized for their inexperience if effort, growth and comprehension are demonstrated. Students will submit sketchbooks, a 500-word paper, preparatory studies and completed painting projects for grading.

Class Limit: 15

Class Meetings: Jan. 4-11, in Washington, D.C.; Jan. 11-31 on campus (CO 111).

Approximate Cost: \$455

B 294 MARINE BIOLOGY

Pre-Req: Consent / Prof. David Richard / Office: Bush 212

An introductory course in marine biology consisting of directed, field-oriented studies of systematics, ecology, biogeography and behavior of marine organisms. Emphasis is on the field study of living marine forms in their natural habitats. Field activities will be based at the Bellairs Marine Laboratory, St. James, Barbados (Windward Islands); and at Virgin Islands National Park, St. John, U.S. Virgin Islands (Leeward Islands). The class will survey and analyze ecologically various tropical marine ecosystems along shore and offshore at Barbados. These include coral reefs, rocky littoral, sandy littoral, deep water benthic, mangrove swamp, and brackish ponds. At St. John the major emphases are comparative studies of the fringing coral reefs and marine biogeography.

Means for Evaluation: Each student will keep a complete field notebook of ecological and taxonomic data, turn in daily lists of species identified, contribute to evening seminar-discussion meetings, and write a final report summarizing and relating the various marine habitats studied. Grades will be based on tests, notebooks, and participation in seminars, laboratory, and field work.

Class Limit: 14

Class Meetings: Jan. 4-15 on campus; Jan. 16-31 off campus.

First Session: 9:00, Wednesday, January 4, in BU 234

Approximate Cost: \$1020

BA 363 COMPARATIVE WESTERN LEGAL CULTURES: LONDON AND PARIS

Pre-Req: None / Prof. Marvin Newman / Office: CR 310

The principle focus of this course is the comparison of the contemporary legal cultures of three Western nations: The United States, England, and France. Students will examine through readings, formal lectures, class discussion, and visits to legal institutions in the United States, England, and France, the nature, function and growth of the development of law in Western society. Students will spend the first week of the four-week course on the Rollins College campus engaged in daily class lectures, discussions, and homework readings preparatory to the trip abroad to England and France, which will commence in the second week and continue into the third week of the course. The last week of the course, conducted on and near the Rollins College campus, will be devoted to observation of American legal institutions (the counterparts of similar institutions visited in England and France), and further lecture discussions, readings, and summation.

Means for Evaluation: Students are expected to attend all lectures and all field trips, read all assignments and participate in meaningful class discussions. There will be short written assignments.

Class Limit: 20

Class Meetings: Jan. 4-6 in CR 317, 8:00-10:00 a.m.; Jan. 8-23 in England and France; Jan. 24-31 in CR 317, 8:00-10:00 a.m.

First Session: 8:00 a.m., January 4 in CR 317

Approximate Cost: \$1550

ES 270 ENVIRONMENTAL LITERATA III

Pre-Req: Consent and reading of Walden with notes before first class session
/ Prof. Edward Scheer / Office: BU 230

Jackson Hole, Wyoming, is ringed by mountains with the Teton range forming a spectacular backdrop to the west. This area is frequently in the national spotlight for the numerous battles waged between developmental and conservation interests. We will explore the concept of "wilderness" and its preservation by field trips -- on skinny skis among other modes of travel -- and formulate a personal environmental ethic with the help of exciting readings and guest seminar leaders. Ideas and values thus gained will serve as a baseline for an attempted resolution of a current local environmental problem; a bridge is thus built connecting the classical/theoretical first part of the course to the contemporaneous latter half. Approximately ten hours each week will be spent in discussion following the Socratic approach, and twelve hours will be devoted to field trips, seminars, and public meetings.

Means for Evaluation: Written assignments, team report, class discussion, active participation in field trips, attendance.

Class Limit: 12

Class Meetings: Jan. 4-31 in Jackson Hole, Wyoming.

Approximate Cost: \$1590

FR/LACA 150/450 A LA MARTINIQUE

Pre-Req: None / Prof. Richard Lima / Office: Hauck 208

From colony to overseas territorial possession, la Martinique has acquired a unique identity throughout its three hundred years of French settlement. Like all Caribbean islands colonized by European powers following Columbus' voyages to the Western Hemisphere, la Martinique has evolved its own customs, traditions and creole language that continue to exist alongside its French heritage. Students will be required to discover and document the island's uniqueness through their selection of study projects. Interviews with local inhabitants (students, artists, waiters and politicians) will be initiated by all students to give each participant an overall awareness and understanding of la Martinique. Daily lectures will be scheduled in the mornings, allowing students the opportunity to pursue their interviews in the afternoons and on some weekends. Guided tours will be arranged to points of interest in the capital, Fort-de-France, along with an island-wide tour scheduled for the second weekend of our visit. Students majoring in anthropology, art, sociology, music, history of the Americas, Latin American studies, business and political science are encouraged to participate along with French majors and minors. This course is graded on a credit/no credit basis.

Means for Evaluation: Attendance at lectures, required reading, interviewing of inhabitants, journal, study project and attendance at excursions.

Class Limit: 20

Class Meetings: Three orientation sessions: mid-October, early November, and early December. In la Martinique classes will be held in the mornings; student interviews in the afternoons and on some weekends. Two four-hour sessions will be scheduled; one at the end of the first week; the second towards the end of the third week, to discuss and evaluate the progress of the projects selected by the students.

Approximate Cost: \$1490

GN 100/300 THE CULTURAL AND ECONOMIC ENVIRONMENT OF MUNICH AND VIENNA

Pre-Req: GN 201 for letter grade; none if CR/NC / **Prof. Peter Bonnell / Office: Hauck 206**

This course provides an opportunity for German language students to improve their language skills and gives students an opportunity to study the cultural and economic life of Munich, Germany and Vienna, Austria through participation in guided cultural and industrial visits.

Means for Evaluation: A written and graded test, presentation for group seminars and a final paper.

Class Limit: 22

Class Meetings: Jan. 4-27 in Munich and Vienna

Approximate Cost: \$1575

H 294 THE CULTURE OF CHINA: PAST AND PRESENT

Pre-Req: None / **Prof. Charles Edmondson / Office: PAB 24**

China is not only the most populated state on Earth, but it also features the oldest continuous culture. Hence, those who wish to understand China's contemporary role in the world must not only be informed about that country's present resources, problems, aspirations, and policies, they must also understand the historical dimensions of the cultural prism through which the Chinese observe such phenomena. Similarly, an examination of the continuity (and contrasts) between the cultures of ancient and modern China will greatly enhance one's understanding of how all societies develop.

Means for Evaluation: Brief research paper, daily journal and participation in group activities.

Class Limit: 15

Class Meetings: Jan. 5-31 in China.

Approximate Cost: \$3000

IC 230 ISRAEL: THE PAST IN THE PRESENT

Pre-Req: None / Prof. Cary Ser / Office: OR 107

This interdisciplinary Humanities course will give students a basic underpinning in Israeli history, literature, economics, and politics. It will be a true living, learning experience in which Israel becomes the classroom as students explore Jerusalem, Tel Aviv, Haifa, Jaffa, Jericho, and the West Bank. Each student will be responsible for study in depth of one area of concentration depending upon his or her major; suggested areas include history, literature, economics, politics, and archaeology. Each student will have to compile an extensive reading list and will be able to do research at the Library of Hebrew University. Information will also be available in the form of a series of lectures by Hebrew University professors and visits to Yad Vashem, the Museum of the Diaspora, and the Museum of Hebrew University.

Means for Evaluation: Participation and final paper 15-25 pages in length.

Class Limit: 25

Class Meetings: Jan. 3-29 in Israel. Orientation meetings in October, November, December.

Approximate Cost: \$1528

IC 274 FIELD RESEARCH IN ANIMAL BEHAVIOR AND ECOLOGY: COSTA RICA

Pre-Req: Consent / Profs. Margaret Clarke and Evan Zucker / Office: PAB 11B

Students will be trained in observational methods and sampling techniques in animal behavior, and will learn to apply these skills in a field situation. Emphasis will be placed on the behavior and socioecology of mantled howling monkeys (Alouatta palliata) in their natural habitat in Guanacaste Province, Costa Rica, although opportunity to study other animals (iguanids, various species of birds, anteaters, armadillos) native to that area will be available. Students will select one aspect of behavior or ecology, and conduct a two-week intensive study of that aspect. The howling monkeys have been previously marked with color-coded collars, making identification of individuals possible and maximizing productive field time. Individual histories of the animals are available, as well as a thirteen-year history of the group. Prior to departure, students will be introduced to the animal diversity and ecological history of Guanacaste Province, and will be given the opportunity to practice observational techniques on captive animals at the local zoo. Students may count this course toward a major in Anthropology, Environmental Studies or Psychology.

Means for Evaluation: Participation in fieldwork and discussions is required. First week attendance is critical. Work will include field proposal, oral presentation and written report.

Class Limit: 18

Class Meetings: First week will include three to four hours in class and daily preparation; group will leave January 8 and return January 22; last week spent in review and oral presentations.

First Session: 9:00, Wednesday, January 4, in PAB 19

Approximate Cost: \$900

RN 395 THE U.S.S.R. 1984

Pre-Req: Priority given to those with RN 311, RN 315 and courses in Russian and Soviet History / Prof. Alex Boguslawski / Office: Hauck 205

The objective of this course is to provide Russian language students the opportunity to improve and practice language skills as well as others to study areas of major interest (History, Art, Business, Sociology, International Relations) through experience, contact with Soviet citizens, observation and participation in Soviet living. The program will include visits to leading Soviet Universities and Institutes as well as secondary schools and childcare centers. Discussions with students, administrators and faculty will be scheduled. Students will have guided lecture tours of the Hermitage Art Museum, the Tretyakov Museum, National Museums of Art and History in each of the republics visited. The unique experience of studying the culture, society, economy and history of each of the six republics visited will provide for a close analysis of comparisons and contrasts between republics and the contribution of each to the U.S.S.R. A minimum of eight theater performances will be scheduled and free time will be available for students to continue research in support of individual study requirements in language, business, history, sociology, art, etc. In addition to the Rollins College instructor a qualified Soviet Program Director will be present throughout the entire period to assist with educational and administrative duties.

Means for Evaluation: Detailed report, attendance and participation in all scheduled activities.

Class Limit: 30

Class Meetings: Jan. 4-29 in Russia.

Approximate Cost: \$1395

SH/LACA 150 MEXICO, D.F.: A NATION THROUGH ITS CAPITAL

Pre-Req: None / Prof. Roy Kerr / Office: Hauck 204

The socio-historical forces that shaped the development of the Mexican nation are most clearly reflected in its capital, Mexico City, where Indian, Spanish, and modern Latin American elements fused to form a diverse contemporary amalgam. Students will acquire a thorough understanding of Mexico's past and present. Topics for study will include geography, history, art, and literature of Mexico (pre-Colombian civilizations, the Spanish Colonial Period, Maximilian and the Austrian-French intervention, the Mexican

Revolution and its aftermath, the writings of Rodolfo Usigli, Carlos Fuentes, Octavio Paz, the paintings of Rivera, Siquieros, O'Gorman and Tamayo). Students will tour the city, visit the Museum of Anthropology, the Palace of Fine Arts, University City, Chapultepec Castle, the National Museum of History, the Museum of Modern Art, the Pyramids of San Juan Teotihuacan, and attend a performance of the Ballet Folklórico.

Means for Evaluation: Required readings, group oral presentation, written examination and trip journal.

Class Limit: 40

Class Meetings: Jan. 4-17 on campus; Jan. 19-26 in Mexico.

First Session: 9:00, Wednesday, January 4 in HK 102

Approximate Cost: \$630

TA 360 THEATER-HUMANITIES: NEW YORK CITY

Pre-Req: Humanities, Theater, Music, or Art courses / Prof. Charles Rodgers /
Office: ART 103

This course is designed to provide the students with a broad overview of the Humanities, with an emphasis on the theater. While in New York City the students will participate in a variety of activities related to theatrical and expressive arts including: twelve Broadway productions, a seminar by T.E. Kalem, a visit to the studio workshop of a theatrical scene designer and costume producer, and a variety of lecture tours to ten cultural centers in New York City.

Means for Evaluation: Five-page critical review of each of the twelve productions, a three-page paper on each cultural site, oral reports, exams and quizzes during final two weeks. Letter grade for theater majors; credit/no credit for non-theater majors.

Class Limit: 30

Class Meetings: Jan. 4-15 in New York City, remainder of term on campus.

Approximate Cost: \$1000

ANTHROPOLOGY-SOCIOLOGY

AS 230 ARCHAEOLOGY OF CENTRAL FLORIDA

Pre-Req: None / Prof. Marilyn Stewart / Office: PAB 4A

Through a combination of readings and first-hand excavation we will explore the lifeways of prehistoric Indians in Central Florida. About half our time will be spent on an archaeological dig of a mound on the St. Johns River.

Means for Evaluation: Study guides, midterm and final examinations, journal.

Class Limit: 15

Class Meetings: 9:00-4:00 MT; 1:00-4:00 WTH

First Session: 1:00, Wednesday, January 4 in PAB Basement D

AS 296 NAZI GERMANY AND THE HOLOCAUST

Pre-Req: Consent / Prof. John Weiss / Office: PAB 6

In the early stages of World War II, the decision was made by the leadership in Nazi Germany to begin the "final solution to the Jewish program." This eventually led to the mass murder of almost six million Jews and six million non-Jews in the concentration camps of Nazi-held Europe. This decision to liquidate the Jews and other enemies of the Nazi state was the culmination of a long series of actions taken during the decade of the 1930's to begin the isolation, forced movement, and concentration of the Jews living in Germany.

This course focuses on Nazi racial ideology, the governmental decrees which were part of the legal process, and on other considerations that entered into the thinking of the Nazi leadership. We will examine from a sociological perspective those elements of Nazi society and ideology which were part of the process leading to mass murder in the concentration camps. This course also looks at life in the concentration camps themselves, and at a wide range of Jewish responses to the treatment they received. Questions of moral and ethical dilemmas confronting not only Jews but also all German citizens are included. A basic background on the rise of the Nazi party is included, as is the question of the lessons to be learned from this historical experience with totalitarianism. The power of the state over individual responsibility for action in any society is examined in detail.

Means for Evaluation: Class participation based upon reading ten to twelve required books, oral reports and oral exams. Numerous TV tapes, films and other visual matter will also be presented.

Class Limit: 15

Class Meetings: 10:00-12:00, 1:00-3:00 MWTH, plus four hours per week of TV tape and film.

First Session: 10:00, Wednesday, January 4, in PAB 1B

AS 310 THE SOCIOLOGY OF THE OCCULT: AN ANALYSIS OF THE WORKS OF CARLOS CASTANEDA

Pre-Req: None / Prof. Lynda Glennon / Office: PAB 5A

An examination of the realm of the occult (magic, sorcery, spiritualism, etc.) using sociology of knowledge insights. The major focus will be on the six works of Carlos Castaneda and on the social scientific commentaries which have addressed his work.

Means for Evaluation: Oral reports on readings and on field trip notes; a mid-term and a final examination.

Class Limit: 20

Class Meetings: 10:00-1:00 MTWTH, 6:00-10:00 p.m. TH. Field trips to such places as Cassadega and guest speakers will be scheduled all day Friday.

First Session: 10:00, Wednesday, January 4 in PAB 3

AS 390 LAW, CRIME AND SOCIAL CONTROL

Pre-Req: None / Prof. Larry Van Sickle / Office: PAB 5A

This course will entertain two major objectives. First, the class will examine the various theoretical explanations which purport to explain crime causation. Secondly, we will attempt to situate the study of criminology within the contextual arena of social systemic analysis. Seen from this perspective, crime will be examined as it evolves from the production, reproduction and transformation of the larger social whole. U.S. society will provide the societal focus for the bulk of our inquiry.

Means for Evaluation: Two research papers, two paper critiques, midterm exam and class participation.

Class Limit: 15

Class Meetings: 1:00-4:00 MTWTH

First Session: 1:00, Wednesday, January 4 in PAB 21

AS 328 WOMEN'S BIOLOGY; WOMEN'S HEALTH

Pre-Req: None / Prof. Carol Lauer / Office: PAB 4B

This course will acquaint students with the basic reproductive physiology of women and go on to consider selected health problems. These problems will be

discussed in terms of physiology and in terms of the response of the American medical establishment to their prevention and solution. Among the topics considered will be: birth control, venereal disease, amenorrhea, dysmenorrhea, fertility. Emphasis will be placed upon learning techniques for dealing with these and related problems in real life situations.

Means for Evaluation: Weekly tests, class participation, participation in three group projects that will require short individual papers.

Class Limit: 20

Class Meetings: 12:00-2:30 MTWTHF

First Session: 12:00, Wednesday, January 4 in PAB 20

ART

A 215 ARCHAEOLOGICAL AND ART-HISTORICAL STUDY OF THE GREEK WORLD, 8TH-4TH CENTURIES B.C.

Pre-Req: Soph, Jr, Sr / Prof. Daniel Woods / Office: CO

A study of Hellenic art and culture from about 900 B.C. to 323 B.C. Topics will include: the geometric 8th century B.C. and the creation of alphabetic Greek language and literature as illustrated by the works of Homer and Hesiod; the changing styles in the visual arts and literature of the orientaling 7th century B.C.; the Ionic and Doric orders; the archaic 6th and early 5th centuries B.C.; the Persian Wars and Herodotos; the classical 5th and 4th centuries B.C.; Athens and the Age of Pericles. The art-historical method will be followed in lectures illustrated by slides of the works of art. The ancient Greek world will be revealed by a study of its material remains, architecture, sculpture, painting, literature, and the so-called minor arts of pottery and coins.

Means for Evaluation: Oral report of an individual research project; a properly researched, footnoted term paper, with bibliography; a final slide examination.

Class Limit: 15

Class Meetings: Two hours, three days weekly.

First Session: 9:00, Wednesday, January 4, in CO 116

A 292 RAKU

Pre-Req: None / Prof. Ronald Larned / Office: CO 101A

This course will cover both the historical background and contemporary uses of Raku. Course study will include handbuilt forms, wheel-thrown forms, clay formulation, glaze types and application, and firing techniques. This course will offer the opportunity for students who normally would not have a chance to become involved in the creative arts to do so. Out of this direct involvement will come an increased awareness and appreciation of the visual arts.

Means for Evaluation: Evaluation will be based upon material covered in class and the outside readings, midterm and final exams, grades received on projects, notebooks on ceramic design, and glaze test results.

Class Limit: 15

Class Meetings: Classes will meet four days a week for three hours each morning and students will work individually each afternoon for three hours a day.

First Session: 9:00, Wednesday, January 4, in CO 101

A 294 INDIAN CULTURE AND ART OF THE SOUTHEASTERN UNITED STATES

Pre-Req: Sophomores and above / Prof. Robert Lemon / Office: CO 103

The culture and arts of the Indians of the Southeastern United States will be the focus of this study. The region includes Georgia, Florida, South Carolina, Alabama, Mississippi, Louisiana, portions of Arkansas, Tennessee, North Carolina, with segments of a few other states as the modern map designates this region of our continent. The course material will cover pre-historic and post-contact native American arts and architecture; utilitarian and ceremonial artifacts will be considered.

Special attention will be given to Florida Indians, both indigenous and emigrant populations. A three-day field trip will be made to visit Miccosukee and Seminole reservations as well as view art collections to the Miami area. The course will acquaint students with native American art in slide lecture and discussion, academic research projects, and field experience.

Means for Evaluation: There will be two quizzes and a final examination to test students on the reading assignments. Students will be asked to give brief, informal presentations to the class, and there will be a term paper.

Class Limit: 20

Class Meetings: 9:00-12:00 MTWTH

First Session: 9:00, Wednesday, January 4, in CO 113

If the off-campus study in Washington, D.C. cannot be conducted,
the following
ALTERNATE COURSE
will be offered

A 391 METHODS OF THE MASTERS

Pre-Req: A 131, 231, 222, Consent / Prof. Thomas Peterson / Office: CO 107

Learning from established masters of the past has long been an important part of the artist's training. Even an age as conscious of the moment as ours makes concessions to the past and draws fresh insights from a vast reservoir of accumulated knowledge and experience. The past is continuously relevant to the students of art. It is their good fortune that art is essentially a human rather than a mechanical activity and thus escapes the modern-day dependency on progress.

The objective of this course will be to help the student discover some of the unchanging principles in art, while gaining insight into specific methods of artists from different periods.

Means for Evaluation: Evaluation will be based on comprehension of the material as presented through reading, discussion and studio experiences, and specifically on the student's ability to present visual evidence of his comprehension in the form of graphic and color analysis of a range in complexity from analytical sketches to finished color work. Evaluation will be based largely on the quality of a portfolio consisting of about twelve plates.

Class Limit: 12

Class Meetings: 10:00-1:00 MTWTH; eight hours, reading; sixteen hours, outside project work; and four hours, conferences.

First Session: 10:00, Wednesday, January 4, in CO 111

BIOLOGY

If the off-campus study in Barbados and the U.S. Virgin Islands cannot be conducted, the following

ALTERNATE COURSE

will be offered

B 191 PSYCHOBIOLOGY

Pre-Req: None / Prof. David Richard / Office: BU 212

An introduction to the biological basis of behavior. Includes brief considerations of behavior types in the classical sense (e.g., kinesis, taxis, reflex, instinct, learning, reasoning) as well as of behavioral potential at various taxonomic levels (as correlated with increasingly complex central nervous system, etc.). Major emphasis of introductory material is on the mechanisms of behavior: anatomical, physiological, developmental and maturational status, and memory as the recording device for experience. Fundamentals of nervous system structure and function are covered, as well as gross endocrine effects on behavior, memory theory, drug effects, inheritance of behavior, and the evolution of behavior. Special topics of interest include spatial behavior (e.g., individual distance, territoriality), social behavior, communications, and navigation. The primary course objective is to provide a fundamental mechanistic understanding and appreciation for the dynamics of behavior -- the REAL relationships between stimulus and response within the organism.

Means for Evaluation: Weeks 1 and 2: Daily quizzes, oral reports on reading and lab assignments. Weeks 3 and 4: Oral progress reports on lab/field projects, seminar presentation on project report, final examination.

Class Limit: 24

Class Meetings: Weeks 1 and 2: 9:00-11:30 and 1:30-4:00 MTWTHF. Weeks 3 and 4: Laboratory/field projects (individual) with twice weekly conferences, summary sessions and seminar presentations on student projects.

First Session: 9:00, Wednesday, January 4, in BU 234

B 292 ISSUES IN NUTRITION

Pre-Req: None / Prof. Eileen Gregory / Office: BU 217

Through library research, small group discussions and class discussions, we will examine the world food situation and evaluate alternative solutions to the problem. Topics of discussion will include population pressures,

technological advances and factors affecting food choices. The course will be taught by the guided design method. This course will not count as an elective for the Biology major.

Means for Evaluation: Grade will be based upon participation and weekly papers.

Class Limit: 15

Class Meetings: 9:00-12:00 MF, daily group meetings.

First Session: 9:00, Wednesday, January 4, in BU 105

B 351 POPULATION BIOLOGY

Pre-Req: Proficiency in algebra, sophomore status, consent / Prof. Persis Coleman / Office: BU 213

This course covers the topics of elementary population genetics, ecology, and evolution. A student successfully completing this course will know the models and biological applications of these disciplines. In addition, the student will be able to design experiments to test these models in nature and formulate models based upon a data sample. Papers in several scientific journals are discussed in order to apply the theoretical models and statistical tests. Meetings will be devoted to lecture, problem-solving, and discussion.

Means for Evaluation: Student's performance on two quizzes, three exams, class participation and a written project.

Class Limit: 24

Class Meetings: 10:00-12:30 MTWTH and scheduled problem-solving sessions.

First Session: 10:00, Wednesday, January 4, in BU 207

B 390 HUMAN DEVELOPMENT BIOLOGY (N)

Pre-Req: B120, sophomore status, consent / Prof. Stephen Klemann / Office: BU 220

The development of the human organism intrigues us as vested participants attempting to understand how it is possible to have begun as single cells and end as aged individuals. This course provides an understanding of human development from a biological perspective. It examines the physiological processes of reproduction, pregnancy and parturition. It explores development from fertilization and early embryonic development through birth to maturity and finally senescence. Congenital abnormalities, their bases in genetics and the environment, and the role and limitations of genetic counseling will be discussed. This course is designed for the serious and motivated student and is suitable for non-science majors. A laboratory accompanies the course.

Means for Evaluation: Two examinations, discussion, laboratory participation, and one laboratory practical examination.

Class Limit: 12

Class Meetings: 10:00-12:00 MTWTFH (lecture); 2:00-5:00 MWF (laboratory).

First Session: 10:00, Wednesday, January 4, in BU 210

BUSINESS STUDIES

BA 263 THE LANGUAGE OF ACCOUNTING

Pre-Req: Business students completing BA 325 or BA 326 not admitted / Prof. Paula Satcher / Office: CR 110

A survey of accounting that will focus on the interpretation, use, and appreciation of accounting information. The course is designed for the present and future uses of the products of an accounting system, not for the aspiring accountant. Emphasis will be placed on concepts, not mechanics, while considering the informational needs of the manager. Topics include accounting reports, the concept of value, approaches to inflation and financial statement analysis. This course is intended for non-business students.

Means for Evaluation: Class participation, homework assignments, tests, case studies and presentations.

Class Limit: 15

Class Meetings: 9:00-12:00 MWF

First Session: 9:00, Wednesday, January 4, in CR B17

BA 308 INVESTMENTS

Pre-Req: No freshmen. Juniors and seniors preferred. / Prof. A. Ross Evans / Office: CR 117

A study of investments in stocks and bonds. However, some emphasis is given to other forms of investments, especially real estate. Course objectives are as follows: to build a financial and investment vocabulary; to provide inquiry into business problems and current trends; to read financial statements intelligently; and to better understand the working of our capitalistic economy, the political philosophy of the times, and the future trends of the economy and their effects on business.

Means for Evaluation: Three or more tests, three or more special written reports, class discussions.

Class Limit: 30

Class Meetings: 1:00-3:00 MTWTF

First Session: 1:00, Wednesday, January 4, in CR 220

BA 380 EXECUTIVE DECISION MAKING

Pre-Req: Consent / Profs. Roy Meadows and David Currie / Offices: CR 308 and CR B15

Students are provided the tools and understanding to play the role of business executives. The entire class will use cases and experiential exercises to further their understanding of the causes and consequences of executive decisions. Students also will learn how to acquire and interpret information from more effective decisions. Students will be given a pretest and a posttest to gauge their development. Students also will be assigned at random to a simulation group, which will make decisions through a computer simulation. No knowledge of computer programming is required. Non-business students are encouraged to enroll.

Means for Evaluation: Participation in the cases and class exercises, homework assignments or tests designed to gauge the improvement in the student's knowledge about business operations.

Class Limit: 60

Class Meetings: 9:00-12:00 MTWTHF

First Session: 9:00, Wednesday, January 4, in CR 318

BA 381 ACCOUNTING & SOCIETY

Pre-Req: Consent. Students who have taken BA 325 or BA 326 not admitted. / Prof. Bill H. West / Office: CR 109

Designed for students of all disciplines. A brief history of accounting will be presented, as well as its future and how it can assist with the problems and challenges of social change. Elementary concepts of accounting will be explained, but only as necessary for a basic understanding of financial statements. Basic federal income taxation and investment analysis will be discussed. This course will not teach accounting or bookkeeping but will afford a proper perspective as to why accounting information is presented. It will be especially useful to those students who intend to pursue graduate study in business, but who have had no previous exposure to accounting. It should also be valuable to those students who simply want to understand financial reporting and information available to corporate investors.

Means for Evaluation: Two examinations, pop quizzes, research paper/presentation (optional), class participation and homework assignments.

Class Limit: 15

Class Meetings: 9:00-11:00 MTWTHF

First Session: 9:00, Wednesday, January 4, in CR 221

If the off-campus study in London/Paris cannot be conducted, the following
ALTERNATE COURSE
will be offered

BA 382 LANDMARK CASES: A STUDY OF SOCIAL FORCES AND THE DEVELOPMENT OF LAW

Pre-Req: Junior status / Prof. Marvin Newman / Office: CR 310

A study of landmark cases beginning with the Salem witchcraft trials and including such famous cases as the Lindbergh kidnapping, Sacco-Venzetti, the Rosenberg spy case, Alger Hiss, Sirhan-Sirhan, Leopold and Loeb, Philip Berrigan, the trial of Adolf Eichmann, the Nuremberg trials, Patricia Hearst, and John Hinckley with emphasis on the effect of social forces on the origin and development of American law. Objectives: (1) To gain an understanding of those social forces which shape both the origin and development of law in America. (2) To analyze and interrelate significant cases from earlier times and more recent times and to gain an understanding and appreciation of the importance of historical and political influence in making law. (3) To examine, compare and understand the nature of law and its functions. (4) To trace the origin of legal principles as developed by courts through an analysis of leading cases in order to gain an understanding of the role of law in society.

Means for Evaluation: Short written assignments and class participation. Critical analyses of recent cases studied on an individual basis and in consultation with instructor.

Class Limit: 20

Class Meetings: Jan. 4-9, 4:00-6:00 MTW, Jan. 16-20, 4:00-6:00 MW or TTH, Jan. 23-27, 4:00-6:30 MW, Jan. 26, 4:00-6:30

First Session: 4:00, Wednesday, January 4, in CR 317

BA 393 ETHICS AND SOCIAL RESPONSIBILITY, A BUSINESS PERSPECTIVE

Pre-Req: Juniors and seniors, prefer business students / Prof. W. J. Hepburn and Father Joseph Calderone / Offices: CR 210 and Newman House

Case studies of the changing environment of American business. Main emphasis will be on the social responsibility of business. Topics covered: consumerism, ethical problems relating to business, values in our changing society, government regulations, and ethical problems in international business relationships.

Means for Evaluation: Tests, oral presentations, homework cases, and short research paper.

Class Limit: 40

Class Meetings: 9:00-11:30 MTWTH

First Session: 9:00, Wednesday, January 4, in CR 222

CHEMISTRY

C 219 CHEMICAL SYNTHESIS AND ANALYSIS

Pre-Req: C 120 or Consent / Prof. Larry Eng-Wilmot / Office: BU 314

The limits of modern inorganic chemistry are becoming ill-defined; they may range from the foundations of physical and organic chemistry to the edges of theoretical physics and molecular biology. This course, designed for the beginning student of chemistry, offers a unique lecture-laboratory experience for the development of a working understanding of the principles governing the synthesis, reactivity and structure analysis of "inorganic" molecules. Lecture-study will include thermo-dynamic and kinetic treatments of chemical equilibria, reaction kinetics and mechanisms, modern bonding theories and chemical and spectroscopic methods of analysis. The laboratory will emphasize skills and techniques in the synthesis, structure characterization and analysis of a number of interesting inorganic coordination compounds.

Means for Evaluation: Two one-hour examinations, final examination, weekly quizzes, laboratory reports and performance.

Class Limit: 10

Class Meetings: 9:00-11:00 MWF. Laboratories will meet 9:00-12:00 and 2:00-5:00 TTH.

First Session: 9:00, Wednesday, January 4, in BU 303

C 230 CHEMISTRY OF NATURAL PRODUCTS

Pre-Req: C 220 and Consent / Prof. Erich Blosssey / Office: BU 313

This course will explore the chemistry and biogenetic aspects of natural products, including terpenes, steroids, alkaloids, acetogenins and macrolides. Structural features of the natural products will be examined as well as an introduction to the biogenesis of these diverse compounds. Laboratory work will make use of the many natural sources of these compounds in Florida for their isolation, separation, purification and structural identification.

Means for Evaluation: Weekly quizzes, final examination and an extensive laboratory notebook.

Class Limit: 12

Class Meetings: 9:00-11:00 MWF

First Session: 9:00, Wednesday, January 4, in BU 301

C 240 ORGANIC QUALITATIVE ANALYSIS

Pre-Req: C 220 and Consent / Prof. Brian Ramsey / Office: BU 310

An intensive laboratory course on the identification of unknown organic compounds and structure determination. Students will learn chemical tests for functional group identification; synthetic techniques for synthesis of characteristic derivatives; the use of spectroscopic methods for confirmation of molecular structure.

Means for Evaluation: Weekly quizzes, final exam, laboratory technique, and the determination of the structure of four unknown compounds, two of which will be given as a mixture.

Class Limit: 20

Class Meetings: Week 1: lectures 8:30-10:30 MTWTH. Week 2: lectures 8:30-9:30 MTWTH. No lectures 3rd and 4th weeks. Labs open after lectures until 5:00.

First Session: 8:30, Wednesday, January 4, in BU 308

COMPUTER SCIENCE

CS 150 INTRODUCTION TO COMPUTING (Q)

Pre-Req: None / Prof. Gloria Child / Office: BU 330

An introduction to computer solutions of problems in non-science fields. Course topics include a thorough discussion of a computer language (BASIC), simple logic in writing programs, and the capabilities of computers including word processing.

Means for Evaluation: Tests, quizzes, writing computer programs and a final examination.

Class Limit: 25

Class Meetings: 9:00-12:00 MTTHF

First Session: 9:00, Thursday, January 5, in BU 326

CS 160 INTRODUCTION TO COMPUTING SCIENCE

Pre-Req: Science and Math majors. No students who have already taken CS 150 / Prof. John Bowers / Office: BU 329C

An introduction to computer solutions of problems, with emphasis on scientific problems. Course topics include a thorough discussion of a computer language (BASIC), simple logic in writing programs, and the capabilities of computers, including word processing.

Means for Evaluation: Three or four tests and approximately 10 short computer assignments.

Class Limit: 25

Class Meetings: 9:00-12:00 MTWTHF

First Session: 9:00, Wednesday, January 4, in BU 328

CS 297 DESIGN OF AN ASSEMBLER

Pre-Req: CS 350 / Prof. Carlton Hart / Office: BU 103

This course will build on material covered in the Introduction to Computers course. The course is a project course in which the general topic is the translation of low level languages. Projects will be selected from the implementation of an assembler, a code generator, a macro preprocessor, a linker, and a loader.

Means for Evaluation: The course grade will depend entirely upon the quantity and quality of the projects submitted by the students.

Class Limit: 12

Class Meetings: 9:00-11:00 as needed.

First Session: 9:00, Wednesday, January 4, in BU 327

CS 298 INTERACTIVE COMPUTER GRAPHICS

Pre-Req: CS 260 and CS 261 / **Prof.** James Warden / **Office:** BU 116

This course will apply structured programming techniques to computer graphics. Topics covered will include display terminals, primitive functions, geometrical concepts, windowing and clipping, display files, and hidden-line techniques. Applications will cover simple line and curve plots, two-dimensional objects, menu-driven design systems, and the representation of three-dimensional objects. A working knowledge of Pascal and structured programming is essential.

Means for Evaluation: Each student will complete several written exercises and one computer program per week. An independent project consisting of a proposal and a demonstration will be required. A final examination may be given.

Class Limit: 12

Class Meetings: 9:00-11:00 four days a week, first two weeks. Two meetings per week, second two weeks.

First Session: 9:00, Wednesday, January 4, in BU 114

ECONOMICS

EC 227 GROWTH AND DEVELOPMENT OF URBAN AREAS

Pre-Req: Introductory social science course / Prof. William Henderson /
Office: TBA

The course is designed to illustrate the processes and problems that take place during rapid growth of cities. Growth is influenced and determined by a large number of inter-related economic and institutional variables. A computer-based simulation of urban growth variables will be used to illustrate alternative decisions and policies that shape the growth and development of a hypothetical city -- Milderson. The life of the city is from 1946 to 2019. Students will assume roles of PIG or advocate groups with particular vested interests in given patterns of urban change. Students will try to create conditions that achieve their desired pattern of economic change in the city. A text will be used to provide information on the structure of urban changes. A number of off-campus interviews will be scheduled with private and public officials involved in urban growth processes. Regular reports are required on the pattern of problems and decision making. A final report and an evaluation of the simulation are required.

Means for Evaluation: Participation in a simulation, reports, final report, questionnaire of simulation model, and class participation.

Class Limit: 19

Class Meetings: MTWTHF, times to be determined

First Session: 9:00, Wednesday, January 4, in CR 220

EC 357 SEMINAR IN ECONOMIC DEVELOPMENT: THE CARIBBEAN BASIN AND THE REAGAN INITIATIVE

Pre-Req: EC 211 and EC 212 / Prof. Harry Kypraios / Office: CR 108

An eclectic approach to the study of regional, urban, and rural development issues of Caribbean Basin Nations and on the new United States policy as it relates to these issues.

Means for Evaluation: Two examinations and one paper.

Class Limit: 15

Class Meetings: Two hours a day (sometimes in the afternoon).

First Session: 10:00, Wednesday, January 4, in CR 316

EC 400 ECONOMIC POLICY ANALYSIS

Pre-Req: EC 303, EC 304, Senior / Prof. Wayne Hales / Office: CR 224

Economic policy activities of the federal and state governments will be analyzed as to their micro- and macroeconomic impacts. Recent activities and recent policy proposals are the primary subjects for analyses. Stated objectives of economic policy activities/proposals will be the criteria for judging conclusions arising from analyses. Inputs to analyses will be restricted to available data and statistical series. Text and library reserve will be required reading.

Means for Evaluation: Midterm exam, final exam and research project. The research projects will be assigned by the instructor during the first week of winter term and will be the subjects of class discussions during the last week of classes. The formal written research projects will be due at that time.

Class Limit: 15

Class Meetings: 9:00-11:00 MTTHF

First Session: 9:00, Thursday, January 5, in CR 117

EC 425 PERSONAL ECONOMICS

Pre-Req: Senior status, Consent / Prof. Kenna Taylor / Office: CR 208

Students will develop the conceptual framework and analytical tools needed to make rational personal economic decisions. Realistic hypothetical case studies of typical household decisions are used extensively to integrate the concepts and tools. The course is designed for students not specializing in economics or business studies.

Means for Evaluation: Two exams, case workbook, class preparational discussion.

Class Limit: 15

Class Meetings: 9:00-11:00 MTTHF, and 1:00-3:00 MTH

First Session: 9:00, Thursday, January 5, in CR 112

EDUCATION

ED 232 A CRITICAL EXAMINATION OF EDUCATIONAL INNOVATIONS

Pre-Req: None / Prof. Gail Johnson-Jauron / Office: TBA

The institution of education finds itself in a nearly constant state of reform at all levels from primary through higher learning. The main objective of this course will be to explore and critically assess some of the more recent educational concepts and some of the more radical teaching models. We will consider whether these educational alternatives are merely faddism in schooling methodology and are of little consequence, or whether these newly designed learning environments reflect fundamentally differing educational philosophies which result in serious and noteworthy change in the student.

Means for Evaluation: Class discussion, individual presentation, and final examination. Learning journal encouraged, but not required.

Class Limit: 20

Class Meetings: 10:00-12:00 MTWTH

First Session: 10:00, Wednesday, January 4 in PAB 2

ED 264 PERCEPTIONS OF SELF, SCHOOL, AND SOCIETY

Pre-Req: A 100-level course in education or in the social sciences / Prof. David H. Gee / Office: Continuing Education Center, first floor

This course focuses on studies of how individuals see themselves, their schools and their society and how schooling affects these perceptions. It reviews how society's perceptions have changed over time and how schools, society, and individuals have adjusted to these changes or been themselves modified by these changes. The English experience will be contrasted somewhat with the American experience.

Means for Evaluation: A research paper is required as well as contributions to class sessions.

Class Limit: 15

Class Meetings: 9:00-12:00 TTH. Students must expect to meet with the instructor individually for a tutorial at least once a week.

First Session: 9:00, Thursday, January 5, in PAB 13

ED 291 DIRECTED OBSERVATION AND FIELD EXPERIENCE - REGULAR

Pre-Req: Education major / **Instructor:** Prof. Linda DeTure / **Office:** Continuing Education Center, first floor.

An opportunity for students interested in teaching to gain an insight into the education process as it exists in the schools. The course consists of two components: 1) Directed observation and field experience, which requires the student to spend four hours daily in an assigned school; 2) Development and practice of specific skills in the following areas: Communication Skills, Analyzing Classroom Verbal Interaction, Classroom Management, Analyzing Classroom Leadership Styles, Writing Behavioral Objectives, Developing Lesson Plans. An additional four hours per week beyond the field experience time is required. The course is open to freshmen, sophomores, and juniors.

Means for Evaluation: Daily log, preparation of lesson plans, analysis of a lesson presented, attendance and participation in field assigned school, attendance and participation in class activities, demonstration of competency in skills.

Class Limit: 20

Class Meetings: Required orientation meeting, 4:30, Tuesday, Dec. 6 at SEHD, 1st floor, conference room. Jan. 4-31, 1:30-3:00 TTH

First Session: 9:00, Wednesday, January 4, in PAB 20

ENGLISH

E 240 THE ART OF BIOGRAPHY

Pre-Req: None / Prof. Edward Cohen / Office: OR 112

The objective is to consider the biographical pursuit as an art rather than as snooping among the remains of a life and arranging those remains in chronological order. Students will investigate both the qualities in human lives that stir the biographic impulse and the processes by which biographers seek and discover meaning in the lives of their subjects. Students will be required to read and evaluate at least six biographies of their choice, and to introduce and outline a biography of a subject of their choice.

Means for Evaluation: Students will be evaluated on the quality of their contributions to class discussions, their written evaluations of six biographies, and their written introduction to a biography of their own.

Class Limit: 15

Class Meetings: 9:00-12:00 MTWTF

First Session: 9:00, Wednesday, January 4, in OR 101

E 270 COMING OF AGE IN AMERICA

Pre-Req: None / Prof. Maurice O'Sullivan / Office: OR 209

This discussion oriented course will examine some of the ways American films and fiction view coming of age. Focusing on the 1960's and 1970's, the class will explore attempts to define the rites of passage from adolescence to adulthood. Balancing works ranging from Portnoy's Complaint, Kinflicks, and North Dallas Forty to The Deer Hunter, American Graffiti, and Hair against the findings of the social sciences, we will discuss the roles of family, school, war, religion, violence, sex, and marriage in shaping artists' visions of how we come of age in the United States.

Means for Evaluation: Attendance/participation, paper, individual journal, and group journal.

Class Limit: 15

Class Meetings: Two to three hours, four mornings per week.

First Session: 9:00, Wednesday, January 4, in OR 205

E 280 VERSECRAFT

Pre-Req: Enjoyment of wordplay / Prof. Alan Nordstrom / Office: OR 207

The study and practice of versemaking, mainly of traditional conventions employing meter, rhyme and formal pattern. A program to extend your appreciation of traditional poetic styles and techniques, while exercising your own verbal skill and wit in the emulation of such notable models as sonnets by Shakespeare and Keats, couplets by Pope and Swift, blank verse by Milton and Wordsworth. An opportunity to discover the surprising and paradoxical liberation that form gives to the imagination. An invitation to cavort with the muse of your choice. Class style: workshop and discussion.

Means for Evaluation: Regular reading and writing assignments, emphasizing productivity: perspiration before inspiration. Evaluation based on diligence, application, creative energy, and good, improving writing.

Class Limit: 12

Class Meetings: 10:00-12:00 MTWTHF

First Session: 10:00, Wednesday, January 4, in OR 201

E 282 THREE BLACK WOMEN WRITERS: HURSTON, MORRISON, WALKER

Pre-Req: None / Prof. Norris Clark / Office: TBA

The course will explore, from a male perspective, the biological, psychological, and sociological aspects of sexual and/or racial differences in human beings as dictated by three fiction writers. The premises underlying the course are: 1) female writers are clearly equal to the task of "workmanship;" and 2) there is a difference between male representation and female representation of humans. The latter premise will be the focus and will delve into the complexities and varieties of "male-female" issues.

Means for Evaluation: Class attendance and participation, and a research paper (15-20 pp) on a specific aspect of a "woman's concern" or a "black woman's concern."

Class Limit: 15

Class Meetings: 1:00-3:00 MTH

First Session: 1:00, Thursday, January 5, in OR 201

If the off-campus study in Israel cannot be conducted, the following
ALTERNATE COURSE
will be offered

E 285 IF ONLY I HAD ENOUGH TIME TO READ . . .

Pre-Req: None / Prof. Cary Ser / Office: OR 107

All too frequently students and faculty find that the only books they can read during the year are books which are required for courses. This can lead to intense frustration and impossibly long reading lists during the summer. This course is intended for people who love to read and enjoy talking about what they read.

Means for Evaluation: Performance will be evaluated on the basis of what the students read and how much they read during the term. Credit/no credit.

Class Limit: 15

Class Meetings: 9:00-12:00 and 2:00-5:00 MTWTF

First Session: 9:00, Wednesday, January 4, location TBA

E 320 F. SCOTT FITZGERALD: THE MAN, THE WORKS

Pre-Req: Jr., Sr. status, Consent / Prof. Philip Pastore / Office: OR 110

We will undertake an intensive study of F. Scott Fitzgerald's life and work. Students will be expected to have read The Great Gatsby and at least one short story prior to the first class meeting. Individual students will be assigned a biography of Fitzgerald during the first week and will report to the class the first Friday. From that point on we will discuss the novels as assigned both from a critical/literary perspective, and from a historical/biographical perspective, hoping to learn something about this complex, gifted, possibly tragic American writer.

Means for Evaluation: Extensive critical paper and class participation.

Class Limit: 10

Class Meetings: 10:00-12:00 MTWTF

First Session: 10:00, Wednesday, January 4, in OR 106

E 330 BANNED IN BOSTON: NOVELS CENSORED IN 20TH CENTURY AMERICA

Pre-Req: E 101, E 150 and Consent / Prof. Barbara Carson / Office: OR 208

Plato wanted Homer expurgated for the protection of immature readers; Caligula attempted to suppress The Odyssey on the grounds that it presented Greek -- not Roman -- ideals of freedom; the District Attorney in Boston in 1881 saw to it that Leaves of Grass was withdrawn from the city because of its indecency. In twentieth-century America this impulse to "protect" the citizenry through censorship has led to the suppression, in various parts of the country, of many books judged works of literature by scholars and critics. Among the works most often censored in American educational institutions are Catcher in the Rye, Soul on Ice, Manchild in the Promised Land, Go Ask Alice, Grapes of Wrath, Of Mice and Men, Slaughterhouse Five, Lord of the Flies, One Flew Over the Cuckoo's Nest, and Brave New World. In this course, a half dozen or so of these books will be carefully analyzed as works of literature. Along the way, we will ask what led to the censoring of each. We will also explore the trends in censorship in America, examining the nature and cause of the censorious impulse and discussing its justifiability.

Means for Evaluation: A journal, oral presentations based on brief position papers, and class participation.

Class Limit: 15

Class Meetings: 9:00-2:00 MTWTF

First Session: 9:00, Wednesday, January 4, in OR 206

E 350 CHAUCER AND THE ART OF LOVE

Pre-Req: None / Prof. Steve Phelan / Office: OR 109

Chaucer was a priest of Venus, a servant of the servants of love. Following Ovid, the great comic poet of the golden age of Rome, he wrote love poems, advice to lovers, and stories about both the greater and the lesser lovers in this world. In this capacity, he was almost always somewhere between humor and hilarity. He described with astute realism the exaltation and the exasperations of lovers. The objective of the course is the same as Chaucer's, the joys of cultural anthropology or coming of age in fourteenth-century London.

Means for Evaluation: Weekly oral reports, one term paper, and one creative writing assignment.

Class Limit: 15

Class Meetings: 1:00-4:00 days to be determined

First Session: 1:00, Wednesday, January 4, in OR 105

E-TA 354 THE PLAYS OF TENNESSEE WILLIAMS

Pre-Req: Consent / Profs. Roy Starling and Steve Neilson / Offices: OR 211 and ART 102

This course, while focusing on Williams' masterpiece The Glass Menagerie, will examine, from both a literary and theatrical standpoint, all of his major plays and some of his later, less well-received efforts. In addition to analyzing Williams' plays as works of literature, we will examine them as "blueprints" for stage productions, following the prototype -- The Glass Menagerie -- from text to performance at the Annie Russell Theatre.

Means for Evaluation: Journal, review, critical essay, attendance, and participation.

Class Limit: 30

Class Meetings: 9:00-11:00 MTWTHF

First Session: 9:00, Wednesday, January 4, in Keene 116

ENVIRONMENTAL STUDIES

ES 222 ALTERNATIVES TO CHEMICAL AGRICULTURE

Pre-Req: None / Prof. Barry Allen / Office: Shell Museum

This course will explore the philosophical and technical underpinnings of ecologically sound agricultural practices. We will explore the development of agriculture as an arm of the chemical industry and explore practical alternatives. The class project will be the creation, by the students, of an organic garden on the Rollins campus.

Means for Evaluation: There will be one paper to relate the class project to the readings and one report on the project itself. Credit/no credit.

Class Limit: 12

Class Meetings: 1:00-3:00 MTWTHF

First Session: 1:00, Wednesday, January 4, in BU 328

ES 260 THE WORLD'S CHANGING LANDSCAPES

Pre-Req: None / Prof. Colin Sale / Office: TBA

This course will study the major zones of the world's biosphere, their characteristics, and the reasons for their distribution. In a world-wide context, it will examine the living and non-living elements of the environment that function as natural ecosystems and now provide the varied habitats for the earth's rapidly growing human population. These great world biomes include the tropical, temperate and boreal forests, and the grasslands, deserts, mountains and tundra. After examining the way in which each of these functions as a natural ecosystem, the course will look at how they have been utilized and developed historically, with varying degrees of success, during the spread of settlement over the earth. It will look at the effects of this development -- the way in which the ecosystems have all undergone change, with some landscapes being totally altered or destroyed, and the need for suitable conservation of those few small natural areas still remaining.

Means for Evaluation: Oral presentation based on a brief position paper, class participation, credit/no credit.

Class Limit: 15

Class Meetings: MWF, afternoon hours to be announced

First Session: Wednesday, January 4, in PAB 18

ES 391 PRINCIPLES AND PRACTICES OF URBAN PLANNING

Pre-Req: None / **Prof.** James Sellen / **Office:** Shell Museum

A study of the practice of urban planning that will focus on how to develop and implement a comprehensive plan for a community. The course will examine planning principles related to: forecasting land use needs; environmental constraints on land use; location criteria for compatible land development; capital improvements programming and financing; sewer and water extension policies for plan implementation; the practice of zoning; the organization and administration of a planning agency. Class will meet four times each week (three class lectures and one lab session). Class periods will be approximately two and one-half hours for lectures and three hours for lab.

Means for Evaluation: Midterm, final and term paper.

Class Limit: 20

Class Meetings: 4:00-5:50 MTWTH

First Session: 4:00, Wednesday, January 4, in BU 326

FOREIGN LANGUAGES

If the off-campus study in Martinique cannot be conducted, the following
ALTERNATE COURSE
will be offered

FR 195/495 THE FRENCH CINEMA

Pre-Req: None / Prof. Richard Lima / Office: HK 208

The French cinema has been among the most varied, acclaimed and innovative in the world. This course is designed to allow students the opportunity of exploring these attributes through critical readings and film viewings. Students will read critical works on film figures such as Goddard and Truffaut and analyze the films viewed. A final paper encompassing the cinematographic techniques, production, direction, acting and innovation found in the films of these French filmmakers will be required. French majors who wish credit for the 400 level must write their papers in French. The films to be viewed will be dubbed or with subtitles so that students with no background in French can also participate.

Means for Evaluation: Students will be required to attend the screenings of each film and participate in classroom discussions. Discussions will be based not only on the films viewed, but likewise on the readings. Grades will be based on attendance, participation and the final paper (10-15 pages, in French or English). The final paper must be an analytical research paper that incorporates works which are not on the assigned reading list.

Class Limit: 20

Class Meetings: Twice a week, two and one-half to three hours, depending on the length of the films.

First Session: 1:00, Wednesday, January 4, in HK 100

If the off-campus study in Munich and Vienna cannot be conducted,
the following
ALTERNATE COURSE
will be offered

GN 390 GERMAN NOVELLE

Pre-Req: German majors GN 201, GN 202; none for others / Prof. Peter Bonnell
/ Office: HK 206

Discussion and analysis in depth of the genre of the German novelle together with representative works from German literature of the 19th and 20th centuries. The course is geared to both German majors and those without a knowledge of German. The former will read the works in the original, the others in translation. However, German majors will have a reduced reading load.

Means for Evaluation: There will be regular homework assignments, both written and oral, weekly written reports and a final term paper. No final examination.

Class Limit: 15

Class Meetings: 1:00-3:00 MTWTHF

First Session: 1:00, Wednesday, January 4, in HK 102

If the off-campus study in Russia cannot be conducted, the following
ALTERNATE COURSE
will be offered

RN 340 THE LAND OF THE FIREBIRD: A SURVEY OF RUSSIAN CULTURE

Pre-Req: Consent / Prof. Alex Boguslawski / Office: HK 205

A study and evaluation of selected problems in the cultural development of Russia from its beginnings to the 20th century. Topics will include the Byzantine roots of Russian religious thought, art, and literature; the Russian icon and fresco painting; influence and role of folklore in the absorption and elaboration of borrowed ideas; the era of Peter the Great: his reforms and changes in Russian life and society; and the explosion of modern experimental art in the beginning of the 20th century. Taught in English.

Means for Evaluation: Class participation and discussion, three written assignments, final examination.

Class Limit: 15

Class Meetings: 9:00-12:00 MWF

First Session: 9:00, Wednesday, January 4, in HK 100

SH 175/475 THE SPANISH CIVIL WAR: ONE MILLION DEAD

Pre-Req: Consent / Prof. Fidel López-Criado / Office: HK 202

A case study in political repression. This course will analyze the impact of the Spanish Civil war upon Spanish society from 1939 to the present. Special attention will be given to the roles of the Church and the military in determining how the Spanish people perceived and responded to their everyday realities. Films, slide presentations, taped interviews, etc. will be included to present the elements of the current transition from a dictatorship to a democracy. Students taking the course for credit at the 400 level will do additional readings in Spanish and their papers must be in Spanish.

Means for Evaluation: Four essay papers, class discussions, attendance, and one individual research presentation.

Class Limit: 15

Class Meetings: 9:00-12:00 MTWTHF

First Session: 9:00, Wednesday, January 4 in HK 101

SH 295 THE SPANISH PLAYERS

Pre-Req: SH 201 or proficiency in reading a play in Spanish, Consent / Prof. Ed Borsoi / Office: HK 201

This is one of an annual series of plays given in Spanish before an appropriate audience (Casa Iberia, local high school groups, college students, etc.). The course is a workshop consisting of rehearsals and preparations. Choice of the play depends on: 1) opportunity for student participation, and 2) enrollment. Aesthetic and literary considerations are secondary, with the prime purpose being improvement of linguistic skills. Students should register only if they are absolutely certain of remaining enrolled, since the play selection will be based on the enrollment figures. This course may be repeated for credit.

Means for Evaluation: Evaluation based on instructor's assessment of cooperation, memorization of lines and overall performance.

Class Limit: 10

Class Meetings: 9:00-12:00, rehearsals daily (except Wednesday, unless needed)

First Session: 9:00, Wednesday, January 4, in Hauck Auditorium

If the off-campus study in Mexico cannot be conducted, the following
ALTERNATE COURSE
will be offered

SH 460 DREAMTIGERS IN THE LABYRINTH

Pre-Req: One 300-level Spanish course, or its equivalent, native or near native fluency in Spanish or Consent / Prof. Roy Kerr / Office: HK 204

A critical survey of the short story mode of narrative in Spanish American letters. The course includes lecture and discussion on the nature of the short story and close reading and analysis of the works of four of the acknowledged masters on the Latin American short story: Ricardo Palma (Peru), Horacio Quiroga (Uruguay), Jorge Luis Borges (Argentina), and Julio Cortazar (Argentina).

Means for Evaluation: Quiz before each class discussion, oral and written report on outside reading, final written exam.

Class Limit: 12

Class Meetings: 9:00-12:00 MWF

First Session: 9:00, Wednesday, January 4, in HK 102

HISTORY

H 150 CONFLICT IN NORTHERN IRELAND

Pre-Req: None / Prof. Steven Barcroft / Office: TBA

The course will start with a two-stage historical introduction; the first one explains the political, economic and demographic trends which by the late nineteenth century had produced two mutually incompatible communities in northeast Ireland. The second one shows how this incompatibility remains and at times intensifies between the 1880's and the 1960's. In the second half of the course, entitled "Fifteen Years of Violence" the chronology of the problem will be covered and the various political and paramilitary movements and personalities assessed. The reasons for the failure of all solutions to date and the possible options open for the future will occupy the concluding lectures. Students will be guided through selective readings consisting of a wide range of government and party publications, memoirs, and newspaper articles.

Means for Evaluation: Regular class attendance, a midterm exam, short oral presentation and a final examination.

Class Limit: 15

Class Meetings: Morning classes

First Session: 9:00, Wednesday, January 4, in OR 105

H 194 WATERGATE: WHAT WAS IT? WHAT DOES IT MEAN?

Pre-Req: None / Prof. Jack Lane / Office: PAB 26

This course will reconstruct the Watergate crisis and then explore its implications for contemporary American society. During the first week we will construct a list of characters and develop a chronology of events. During the second, third, and fourth weeks we will explore the political, constitutional, and moral implications of Watergate.

Means for Evaluation: Test, homework assignments, written reports, research paper.

Class Limit: 20

Class Meetings: 9:00-12:00 MTWTHF

First Session: 9:00, Wednesday, January 4, in PAB 18

H 341 ERA OF THE AMERICAN REVOLUTION

Pre-Req: Consent / Prof. Gary Williams / Office: PAB 25

While admitting that prudence should inhibit revolutionary action against all but the most oppressive regimes, Thomas Jefferson announced on behalf of his fellow patriots in 1776 that during the tyrannical reign of George III the British colonies in America had been subjected to "a long train of abuses and usurpations" and that, further, they would suffer such abuses no longer but would perform "their duty, to throw off such Government." The events leading up to the American secession from the British Empire are the subject of this course. We will examine the American Revolution from both colonial and imperial perspectives (with some emphasis, patriotically enough, on the former), and we will consider several major interpretations of the nature of the Revolution. We may come to some tentative conclusions as to whether George III was indeed the "Royal Brute of Great Britain." Failing that, we shall at least understand why for two hundred years we have celebrated our national independence on the wrong day.

Means for Evaluation: Course readings will include four or five books and perhaps six to eight articles on reserve in the library. Each student will write two papers (total about 15 pages). Several brief quizzes will be given, class participation will be evaluated, and there will be a comprehensive final examination.

Class Limit: 20

Class Meetings: 10:00-12:00 three to four times per week. Several informal required evening sessions.

First Session: 10:00, Wednesday, January 4, in PAB 7

If the off-campus study in China cannot be conducted, the following
ALTERNATE COURSE
will be offered

H 397 THE RUSSIAN REVOLUTION

Pre-Req: None / Prof. Charles Edmondson / Office: PAB 24

This course will examine in detail the principal events in Russia from the fall of Nicholas II to the political triumph of the Bolsheviks in 1921. Our chief concerns will be to seek an understanding of why the revolution occurred and how the path of its development was shaped. Among the topics suggested by these concerns are: the background of the revolutionary year of 1917; the causal relationship between World War I and the Revolution; the dilemma of Russian liberalism after the February Revolution; the position of the little

known (in the West that is) "democratic left" of Russia; the October Revolution; the foreign reaction to the Revolution; and the effects of the Revolution upon Russia and the victorious Bolshevik Party.

Means for Evaluation: Written requirements in this course will be of the following types: First, there will be two examinations. The first will take place on January 16 and the second on January 30. Secondly, students must compile a journal of "abstracts" from the assigned readings (there will be a separate explanation of how to do this). Thirdly, all students must write a separate paper on some facet of the Russian Revolution (a list of suggested topics will be distributed separately). Each of these requirements will be counted as thirty percent of the students' course grades. Participation in class discussions will contribute ten percent of the final grades.

Class Limit: 20

Class Meetings: 9:00-11:00 MTWTHF

First Session: 9:00, Wednesday, January 4, location TBA

LATIN AMERICAN AND CARIBBEAN AFFAIRS

LACA/AS 259 PEOPLES AND CULTURES OF THE CARIBBEAN (C)

Pre-Req: None / Prof. Pedro Pequeño / Office: PAB 4C

A survey of basic anthropological and sociological approaches dealing with the Black cultures of the Caribbean, and in, some instances, with the Black in the Southern United States. Major topics include: (a) history and the colonial heritage; (b) slavery and its impact on culture and society; (c) the plantation system and its detrimental economic consequences; (d) the social structure (the family and household) of contemporary Caribbean societies; (e) ethnicity and ethnic group relations; (f) the nature and function of Afro-Caribbean folklore and religion; and (g) the nature, consequences, and future of Black ideology, revolutionary consciousness, and nationalism in contemporary Caribbean societies. Suitable for non-majors.

Means for Evaluation: Grades will be based on essay examinations, two book critiques, class attendance and participation.

Class Limit: 20

Class Meetings: 9:00-12:00 MTWTH

First Session: 10:00, Wednesday, January 4 in PAB 10

LACA/PO 217/317 LATIN AMERICA AND THE UNITED STATES IN WORLD POLITICS

Pre-Req: None / Prof. Federico Gil / Office: TBA

A survey of the events, institutions, and issues that have dominated the relations of the United States with Latin America and a general view of the process through which a special relationship developed, how this process was affected by historical events, and what possibilities exist for its future course. Special emphasis will be given to contemporary issues and problems in the Caribbean and Central America.

Means for Evaluation: Tests, written assignments, and class participation.

Class Limit: 15

Class Meetings: To be determined

First Session: 1:00, Wednesday, January 4, in PAB 7

LACA/PO 228/290 LATIN AMERICANS IN THE U.S.

Pre-Req: None / Prof. Luis Valdes / Office: PAB 22B

Three major Spanish-speaking minorities are classifiable in the United States: Mexican, Cuban, and Puerto Rican. Although culturally and linguistically identifiable with the Spanish language and tradition in the New World, the differences between them and the variations in their problems and contributions vis-a-vis contemporary American society stem from the nationalities, the historical circumstances of their being in the United States, and the environment in which they find themselves. This course addresses itself to the study of the contributions, problems, and environments of these three groups.

Means for Evaluation: Oral panel presentation with other class members, written report, preparation and writing of the class's joint final report.

Class Limit: 15

Class Meetings: 1:00-3:30 TTH

First Session: 1:00, Thursday, January 5, in PAB 13

The following courses are also appropriate for the Latin American and Caribbean Affairs Program:

EC 357 SEMINAR IN ECONOMIC DEVELOPMENT: THE CARIBBEAN BASIN AND THE REAGAN INITIATIVE - DR. KYPRAIOS

FR 250 A LA MARTINIQUE - DR. LIMA

PO 228 LATIN AMERICANS IN THE UNITED STATES - DR. VALDES

SH 270 MEXICO CITY - DR. KERR

MATHEMATICS

M 110 C APPLIED CALCULUS CONTINUED

Pre-Req: M 110 and Consent / Prof. Ralph Naleway / Office: BU 329

Intended for students of M 110 who plan to take M 112 in the spring. Topics: trigonometric functions, inverse functions, chain rule, derivatives of periodic functions, mean value theorem, applied max/min problems, differentials, implicit differentiation, motion, velocity and acceleration. This course carries only $\frac{1}{4}$ credit unit.

Means for Evaluation: Four tests and daily homework assignments.

Class Limit: 30

Class Meetings: 1:00-2:00 MWF

First Session: 1:00, Wednesday, January 4, in BU 325

M 196 LINEAR PROGRAMMING

Pre-Req: None / Prof. Ralph Naleway / Office: BU 329

An introductory course in the mathematical methods used in solving certain management problems. Considerable emphasis will be given to the simplex method for solving these problems. The basic transportation and assignment problems will be investigated as special cases. This is an applied mathematics course of interest to students of business, mathematics, and computer science. Computer demonstrations and computer learning modules will be available.

Means for Evaluation: Two tests, homework assignments and class participation will determine the student's grade.

Class Limit: 20

Class Meetings: 9:00-12:00 MTWTHF

First Session: 9:00, Wednesday, January 4, in BU 325

MUSIC

MU 196 MUSIC FOR BEGINNERS OR "THEY LAUGHED WHEN I SAT DOWN TO PLAY . . ."

Pre-Req: No formal musical instruction and Consent / Profs. Bill Gallo and Sylvia Reynolds / Offices: Keene

Often students with no musical background wish to experience music through playing. The Music Department is offering these students a chance to develop musical skills through piano, recorder and autoharp playing, as well as through music theory study. It is the goal of this course to develop musical skills sufficiently to complete **Music for the Classroom** (a group piano method book) and to play recorder in three keys within a ten-note range.

Means for Evaluation: Evaluation will be based upon: class involvement (attendance and participation), written tests on keyboard, recorder, autoharp and music theory, applied tests on playing skill, and reports on concert attendance.

Class Limit: 24

Class Meetings: Classes will meet three times per week and consist of one thirty-minute theory lesson followed by one fifty-minute keyboard lesson and one fifty-minute lesson in recorder/autoharp. In addition, the student will have one hour of practice scheduled Monday through Friday.

First Session: 9:00, Wednesday, January 4, in Keene 102

PHILOSOPHY AND RELIGION

PH 195 HUMAN POTENTIALS: THEORY AND EXPERIENCE

Pre-Req: Consent / Prof. Hoyt Edge / Office: French House

Recent research has made it clear that traditional views about the nature of the world and of the person have subverted our conception of human potentials and have forced us to think that we have fewer capacities than we really do. In the class, we will examine some of the evidence for the existence and possible use of several of these potentials, as well as practice some of the traditional and modern techniques to develop our potentials. Some of these are various forms of meditation (TM, Zazan, Ziker, Silva Mind Control, Relaxation Response), exercises in imagery and lateral thinking, as well as body techniques such as Yoga and Feldenkrais. We will meet several times the first week, discussing some philosophical and psychological background. The second week will be an intensive workshop, running 12 to 14 hours per day, in which we will submerge ourselves in the practice of all of the techniques. In the third week, we will continue with some reading and discussion, and the last week will be set aside for writing a paper. There will be a test at the end of the first week as well as at the end of the third week.

Means for Evaluation: There will be a quiz or short paper on each of the three basic books read during the first three weeks of the course, and a term paper due at the end of the course. The class must be taken credit/no credit.

Class Limit: 15

Class Meetings: 9:00-12:00 MTWTH, for the first three weeks. Students will meet individually after that while working on their papers.

First Session: 9:00, Wednesday, January 4, in French House Lounge

PH 205 SCIENCE, TECHNOLOGY AND HUMAN VALUES (V)

Pre-Req: None / Prof. Tom Cook / Office: French House 205

The natural-scientific account of the world raises questions about many of the values of importance to us as individuals and as a society. The technology made possible by science raises ethical dilemmas which we have not previously faced (and which we do not know quite how to resolve). In this course we will study and discuss some of the values which have guided scientific research, the ways in which scientific discoveries and theories can conflict with deeply held values, ethical problems arising in the present institutionalized pursuit of scientific knowledge, and evaluative dilemmas presented by new technological developments. Readings will include five books (one written by a scientist; three by historians/analysts of science; one by an engineer) and a number of articles. This is a 200-level course, open to freshmen, which should be of interest to students in the sciences as well as to those in the humanities.

Means for Evaluation: Two tests on the readings and a final research paper on an applied issue of the student's choice.

Class Limit: 25

Class Meetings: 9:00-12:00 MWF

First Session: 9:00, Wednesday, January 4, in Knowles Chapel Classroom 2

PH 245 PATTERNS OF SPIRITUAL GROWTH IN MODERN LITERATURE

Pré-Req: None / Prof. Tim Bauer-Yocum / Office: French House

Mythology can be approached from a number of perspectives. In this course we will concern ourselves with the ways in which some well-known mythic patterns have appeared in selected works of modern literature such as Richard Brautigan's In Watermelon Sugar, Joseph Conrad's Heart of Darkness, James Dickey's Deliverance, Flannery O'Connor's Wise Blood, and Graham Greene's The Power and the Glory. The spiritual paradigms informing these books, when taken in succession, may be perceived to depict the gradual unfolding of selfhood from the psychologically immature to the fully transformed.

In addition to the novels we will read theoretical works such as Carl Jung's Two Essays on Analytical Psychology and Psychology and Religion, focusing particularly on the relationships between psychological development and spiritual growth. The course is suitable for freshmen.

Means for Evaluation: Grades will be based on class participation, several brief papers (3-5 pages each) and a final exam.

Class Limit: 15

Class Meetings: MTWTHF, times to be determined

First Session: 1:00, Wednesday, January 4, in Knowles Chapel Classroom 1

PH 247 PHILOSOPHY OF THE FAMILY

Pre-Req: None / Prof. Sara Ketchum / Office: French House 104

An examination and evaluation of ethical and social issues arising out of the parent-child relationship. The central questions of the course will be: What obligations do parents have to children? How do these obligations change as the children grow from infancy through adolescence to adulthood? What obligations do children have to parents and how do these obligations change through growth? How and to what extent should these obligations be upheld by law? Students will be asked to decide practical moral problems arising in parent-child relationships through a critical application of readings by philosophers and moral theorists combined with background research into social institutions where relevant.

Means for Evaluation: Weekly quizzes or tests, group reports (oral), paper, and final examination.

Class Limit: 20

Class Meetings: 1:00-3:00 MTWTHF

First Session: 1:00, Wednesday, January 4, in French House Lounge

R 195 READINGS IN WESTERN RELIGION

Pre-Req: None / Prof. Theodore Darrah / Office: French House

Students will become acquainted with the religious literature of Western cultures through reading some of the classical statements that have come out of the religions of the West.

Means for Evaluation: Two written reports and one report on a selected book.

Class Limit: 15

Class Meetings: Two hours per day, four days per week

First Session: 10:00, Wednesday, January 4, in Knowles Chapel Classroom 1

PHYSICS

P 248 DIGITAL ELECTRONICS AND MICROCOMPUTERS (N)

Pre-Req: Consent / Prof. Robert Carson / Office: BU 124

Participant should have had a course in BASIC programming or equivalent experience. A prior course in introductory physics would be useful, but is not required.

The hardware of new electronic products (including microcomputers) consists of tiny integrated circuit chips whose study encompasses what is termed digital electronics. We shall concentrate on the 7400 series of chips: their fabrication, logic design, and specific uses in microcomputer circuits. There is a strong laboratory component of the course: studying the input-output characteristics of selected chips, building more complicated circuits with these chips such as counters and decoders, learning certain aspects of 8080A machine language used by the MMD-1 microcomputer, and controlling assembled circuits, pointing out various applications, familiarizing you with particular microcomputers, and setting up a background for future work in the area of computer. There will be opportunities for projects such as speech and music synthesis, simple animation, simulations, color graphics, and the like using the Apple Microcomputer.

Means for Evaluation: Final grade will be based on (1) answering questions (both orally and in writing) from the texts and instructor, (2) performance on several quizzes, (3) successful building of circuits designated by the instructor, and (4) a project which applies some of the material covered in the course.

Class Limit: 12

Class Meetings: Two hours each day MWF, lab sessions will usually occur daily depending on the individual's progress. A significant portion of the course will be spent in the laboratory.

First Session: 9:30, Wednesday, January 4, in BU 107

POLITICAL SCIENCE

PO 320 TOPICS IN POLITICAL THEORY

Pre-Req: PO 120 or one course in Philosophy / Prof. Laura Greyson / Office: PAB 23

For centuries, students of politics argued that women were too weak, too pure, or even too dangerous for public life. Women might make good wives and mothers, they admitted; rarely did they make good citizens. Modern times have brought with them a new emphasis on equality -- and consequently a new concern with the equality of women. Yet some of equality's most vociferous advocates have failed to find a place for women outside of the household, while others have offered them a part in public life only at the expense of their identity as women. How can we explain the treatment of women in the history of political thought? Clearly there are differences between the sexes. Are those differences rooted in nature, or are they creatures of convention? Are they problems to be overcome, or qualities to be preserved? Most importantly, do they justify the conclusion that men are suited for one way of life and women for another? This course will try to answer these questions by evaluating the place of women in the tradition of political thought. Reading assignments for the course will consist of approximately 200 pages a week of abstract philosophical material (from such sources as Plato's Republic, Rousseau's Emile, Mary Wollstonecraft's Vindication of the Rights of Women, and Emma Goldman's "Tragedy of Woman's Emancipation"). This course can be used to satisfy the 300-level political theory requirement for political science majors.

Means for Evaluation: Write one short paper (3-5 pages), one longer paper (5-7 pages), and a final exam. Class participation will be stressed heavily and will count toward the final grade.

Class Limit: 15

Class Meetings: 9:00-12:00 MTTH

First Session: 9:00, Thursday, January 5, in PAB 1B

PO 383 INTERNAL POLITICS OF THE ARAB WORLD

Pre-Req: None / Prof. William Spencer / Office: Continuing Education Center, second floor

Intensive course on conflict among the Islamic Arab nations of the Middle East, including North Africa. These nations are of recent establishment (post-World War II); therefore their political conflicts arise out of earlier social rivalries and are built on Arab/Islamic structural roots. The course begins with an analysis of the Middle Eastern environment as conducive to conflict and the sociopolitical structure of Islam, the ingathered "Community of True Believers." An understanding of Arab culture is central to understanding of Arab/Islamic conflict; therefore the historical experience of the Arabs will be carefully analyzed.

Means for Evaluation: Graded case study of one inter-Arab political conflict, with oral and written presentations by students working in small groups; reading report on two books or book-length monographs from an approved reading list. Case studies will be developed under the close supervision of the instructor, with wide reading required on the topic.

Class Limit: 20

Class Meetings: 1:00-3:00 MTWTH. Individual conferences, Monday and Wednesday afternoons, group conferences on Thursday afternoons, Fridays for library research.

First Session: 1:00, Wednesday, January 4, in PAB 1A

PSYCHOLOGY

If the off-campus study in Costa Rica cannot be conducted, the following
ALTERNATE COURSE
will be offered

PY 361 PLAY: STRUCTURE AND FUNCTION

Pre-Req: PY 101 / Prof. Evan Zucker / Office: PAB 11B

This course will expose students to an area of research that has been problematic to psychologist and animal behaviorists for nearly a century. What is play? What function does it serve? How do play behaviors develop? How do play behaviors change with development? Do adults play, and why? Students will examine recent writings about the play behavior of human and nonhuman primates with the above questions providing an analytic framework. Direct observations of human and nonhuman primate play will be made, as well as analysis of films. Questions focused on methodology will also be addressed -- how does one study such a nebulous, yet diverse, class of behavior?

Means for Evaluation: One in-class exam based on readings and lecture material (format: short explanatory essay). One short paper based on observations/laboratory work. One longer paper based on a conceptual issue.

Class Limit: 15

Class Meetings: 10:00-1:00 MTWTH

First Session: 10:00, Wednesday, January 4, in PAB 19

PY 381 PRECISE BEHAVIOR MANAGEMENT: APPLICATIONS TO WEIGHT CONTROL

Pre-Req: PY 101 and Consent / Prof. Maria Ruiz / Office: PAB 11A

The outpour of books, magazines, booklets and even scientific articles dealing with weight control and physical fitness in recent years suggests that Americans are becoming conscious and active in the pursuit of healthy bodies and healthy minds. We will survey both popular and psychological literatures in this area, and develop individualized programs based on the principles of Precise Behavior Management. Individualized programs will be designed to develop skills in the application of behavioral techniques such as self-management, contingency contracting and cognitive behavior modification while incorporating a holistic approach to nutrition and exercise.

Means for Evaluation: Written reports, program development and classroom presentations.

Class Limit: 10

Class Meetings: 1:00-3:00 TTH, plus individual weekly conferences.

First Session: 1:00, Thursday, January 5, in PAB 2

PY 382 ADVANCED DEVELOPMENTAL PSYCHOLOGY

Pre-Req: PY 238 or Consent / Prof. Martin Farkash / Office: PAB 13A

Students spend nine hours weekly in direct contact with young children learning how to program activities for their individual needs. Emphasis is also placed on modeling feelings and introducing stress management techniques.

Means for Evaluation: Student's performance in Child Development Center, homework assignments and written reports.

Class Limit: 6

Class Meetings: 3 hours per day, MTWTHF. Individual meetings with Instructor and Child Development Lab teacher on Thursday and Friday.

First Session: 1:00, Wednesday, January 4, in PAB 19

SCIENCE

If the off-campus study in Wyoming cannot be conducted, the following
ALTERNATE COURSE
will be offered

SC 270 WEATHER AND CLIMATE

Pre-Req: None / Prof. Ed Scheer / Office: BU 230

Covers the description, causes, prediction, geographic distribution and effects of weather and climate. Special emphasis will be given to the Pleistocene ice age and the interactions between man and climatological changes including desertification, the greenhouse effect and possible future climates.

Means for Evaluation: Four exams, class report, and class participation.

Class Limit: 20

Class Meetings: 9:30-11:30 MTWTH

First Session: 9:30, Wednesday, January 4, location TBA

THEATER ARTS AND SPEECH COMMUNICATION

SP 250 ZEN AND THE ART OF COMMUNICATION

Pre-Req: None / Prof. Jere Veilleux / Office: ART 197

The problems of communication can be most vividly seen at the interface between Western and Eastern modes of consciousness. Zen, especially, sheds light on communication in our Western culture. Drawing on the works of Alan Watts, Ram Dass, and Krishnamurti, this course involves the student in an intensive analysis of human communication aimed toward improving his communicative skills and understandings.

Means for Evaluation: Class attendance and participation, major project or paper, formal class presentation, reading reports.

Class Limit: 20

Class Meetings: 11:00-1:00 MTWTH

First Session: 11:00, Wednesday, January 4, in CR 213

TA 159/359 THEATER PRACTICE

Pre-Req: Consent / Prof. Tony Mendez / Office: ART Shop

A practicum designed to serve the specialized needs of students of theater. The course will involve morning class discussions of the historical development of the various elements of production, to include scenic design and construction, costuming, lighting, etc., and their relative contribution to the collaborative art of theater. Practical application of theory and principle will occur during afternoon and evening laboratory periods with direct participation in preparation and mounting of the winter term production.

Means for Evaluation: Work will be evaluated by using a structured form reviewed by the theater staff each week. The last week of the term involves in-depth evaluation including conferences with each student.

Class Limit: 25

Class Meetings: 10:00-12:00, 2:00-4:00, 7:00-10:00 MTWTHF

First Session: 10:00, Wednesday, January 4, in ART Shop

TA 239 THE ELIZABETHAN THEATER OR BRUSH UP ON YOUR SHAKESPEARE

Pre-Req: None / Prof. S. Joseph Nassif / Office: ART

The principle objective of this course is to give involved students a sense of how the Elizabethan public theater represented the Elizabethan Age. The

architecture, music, dance, use of properties, and scenic elements, staging practices, costumes, and acting styles of the period will be studied along with a general introduction to the life and times of the Elizabethan Age. Special guests will illuminate various aspects of the Shakespearean theater, such as the actor, the director, the designer, and a selection of films will further illustrate the Elizabethan milieu. The course culminates in the rehearsal and performance of Shakespearean scenes, presented in a court setting with costumes and properties.

Means for Evaluation: Investigative paper on assigned topic; reference reading, Shakespeare's Stage, Alois Nogler; final scene performance with evaluation by faculty of the department.

Class Limit: 15

Class Meetings: 10:00-12:00 MWF

First Session: 10:00, Wednesday, January 4, in Fred Stone Theatre

TA 275 BASIC TECHNIQUES OF TAP AND CHARACTER DANCE FOR MUSIC THEATER

Pre-Req: None / Prof. Paula Gale / Office: ART 105

An understanding of the techniques of tap/character dance. A study of how tap/character dance evolved as an American dance form and its application to American musical theater. Each class will begin with a dance warm-up designed to encourage strength, flexibility and coordination, followed by various dance combinations and sequences (some from original shows). The basic elements of rhythmic phrasing will be studied.

Means for Evaluation: At the conclusion of the course, each student must demonstrate a proficiency in the basic techniques of tap/character dance for the musical theater, in the form of an open classroom presentation, which shall be adjudicated by faculty and peers.

Class Limit: 15

Class Meetings: One hour, four days a week.

First Session: TBA in Fred Stone Theatre

TA 292 INTERMEDIATE BALLETT AND CHOREOGRAPHY

Pre-Req: Two terms of ballet with instructor or Consent / Prof. Ruth Mésavage / Office: HK 209

Designed for intermediate students who have successfully completed Ballet II or its equivalent, and who wish not only to consolidate their technical abilities, but also to learn the rudiments of choreography. Appropriate discipline, attitude, and attire are required and absences are not permitted. All students are expected to participate in both the technique and choreography classes, as well as learn other essentials of performance such as

costuming and theatrical make-up. Students are expected to spend all their academic time in perfecting their technique and creating dances. Those who anticipate full-time employment or who lack the discipline of independent study need not register for this course.

Means for Evaluation: Students will be evaluated daily in class on their preparation, attitude, and general presentation. Aptitude for choreography will be judged by the successful completion of assignments. There will be a final written and performance examination.

Class Limit: 15

Class Meetings: 2:30-6:30 MTWTF

First Session: 2:30, Wednesday, January 4, in Ballet Studio, PAB

INTERDISCIPLINARY COURSES

IC 102 PSYCHOLOGY OF COMPETITION

Pre-Req: Previous or current involvement in a competitive activity. This course does not count as an elective in Psychology. / Prof. Gordie Howell / Office: EAFH

Aimed at assisting student athletes to attain a higher level of self direction and self motivation in their chosen area of sports competition, the course will present a realistic view of some of the behavior and other obstacles that prevent success, and will aid athletes to view athletic competition in a reasonable and proper perspective.

Means for Evaluation: Each student will prepare a plan of action for dealing with the stresses of competition to include: daily worksheets of activities, personal motivational test results and problem solving with peer and instructor evaluation. Satisfactory completion of written assignments is expected.

Class Limit: 30

Class Meetings: 10:00-12:00 MTWTH

First Session: 10:00, Wednesday, January 4, in Field House Classroom

IC 150 ASHTANGA YOGA: AN INTRODUCTION TO THE PHILOSOPHY OF PATANJALI

Pre-Req: None / Prof. Norman Gilbert / Office: PAB 22

This course is designed to introduce the student to the practices of the ancient system of Ashtanga or eight limbed yoga. The eight limbs are: Yama (restraints), Niyama (observances), Asana (posture, seat), Pranayama (control of Prana, breath), Pratyahara (withdrawing the mind from sense perception), Dharana (concentration), Dhyana (meditation), and Samadhi (super-consciousness). Credit/no credit.

Means for Evaluation: Evaluation will be based on mandatory attendance at all class meetings, short written assignments and an end of term essay exam.

Class Limit: 15

Class Meetings: 9:30-11:00 MWF

First Session: 9:00, Wednesday, January 4, in PAB 1A

IC 260 SEARCHING AND CITING SCIENTIFIC LITERATURE

Pre-Req: C 121, B 121, P 202, M 111, ES 291 or ES 293 / Profs. Marilyn Anderson and Larry Eng-Wilmot / Office: Bush Library and BU 314

The ideas and laboratory results of a scientist have little meaning if they are not communicated to the scientific community. Today, modern information technology allows rapid information dissemination on several levels and in many languages. However, with the tremendous growth of scientific literature in the past two decades, scientists must acquire the skills necessary for retrieving required information and for keeping abreast of developments in a particular field of research. This course is developed to provide students in the sciences and science related fields with a unique opportunity to develop current awareness of scientific literature and the skills necessary to search it in both print resources and online databases. Students will learn how to develop search strategies and how to implement them in both computer databases and library print resources. Emphasis will be on chemical and biological literature, however, students interested in other disciplines such as physics, mathematics, environmental studies, medicine and other health related fields will be accommodated.

Means for Evaluation: Journal, oral and written daily research problems, pre- and post-exams.

Class Limit: 16

Class Meetings: One to three hours per day, MW, all day lab TTH, all day Friday.

First Session: 1:00, Wednesday, January 4, in BU 108



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Winter Park, Florida