



the  
University  
at **Stony Brook**

# Undergraduate Bulletin Supplement

LIBRARY REFERENCE DEPARTMENT  
STATE UNIVERSITY OF NEW YORK  
AT STONY BROOK  
STONY BROOK, NEW YORK 11794

*with* Prime Time Program

For Spring Semester, 1987

*Compiled in October 1986*

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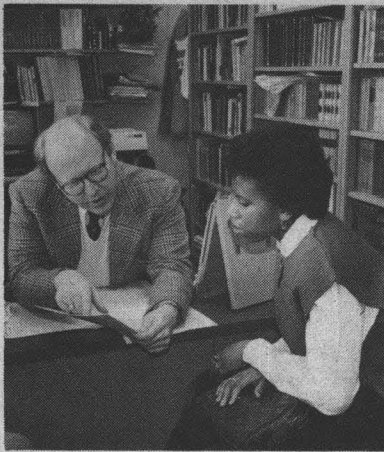
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## A Word about the Supplement

The *Bulletin Supplement* is published in November and April at Prime Time to provide students with information that will help them to plan their programs and to advance register for the following semester. It contains both the schedule of Prime Time activities and a cumulative update of the 1985-87 *UNDERGRADUATE BULLETIN*. New courses and minors, revised major and minor requirements, and changes in academic regulations and procedures approved since the *BULLETIN* went to press (January 1985) are printed in the *Supplement*. Not every course listed in this issue of the *Supplement*, however, will be offered in Spring 1987; those actually being offered appear in the *Class Schedule*. The *Supplement* announces what courses that are listed in the *BULLETIN* as being available in Spring 1987 are not scheduled for that semester (as of October 10). By the time the spring semester begins, however, a few of these courses may become available. Special topics being offered in Spring 1987 are also announced in the *Supplement*.

Courses that do not appear in the *BULLETIN* at all are designated "NEW" in the *Supplement*. Courses designated "REVISED" may have had only one element changed—the title or the description or the prerequisites or the credits or the number. In many cases several of these elements are different. Descriptions and prerequisites are listed only if they have been revised. (If no prerequisite appears, it means that the prerequisite remains the same as in the *BULLETIN*, not that the course no longer has a prerequisite.) Expected semester of offering and course credits are shown for new courses but not for revised courses unless the credit value has been changed.

Further information about the courses and programs mentioned in the *Supplement* may be obtained from the departments or instructors offering them.



# Prime Time Program

## Prime Time is Your Time

### November 12-21

Prime Time is ten days of departmental activities and advising, offered every semester before and during advance registration. It is the time when your attention is necessarily focused on your academic plans for the next semester and beyond. To plan well, you need to consult faculty members. During Prime Time, academic departments and programs schedule events and additional advising hours to maximize your contact with the faculty. You can talk formally and informally with professors about your choice of a major, a minor, course selection, graduate school, and any other questions you have relating to your academic interests and program. If you have already chosen a major, you should seek faculty advice concerning the completion of that major and University graduation requirements. You can use Prime Time to explore research opportunities, internships, study abroad, and honors programs.

You are encouraged to attend any program you find helpful or interesting. Faculty and staff of the sponsoring departments will be in attendance. Enjoy the camaraderie with them and other students.

*The following schedule of faculty advising hours is for the period of Prime Time only, November 12-21. Faculty advising schedules for the weeks before and after Prime Time are posted in department offices.*

Special thanks to the Stony Brook Foundation for providing funds for Prime Time open houses and events.

## College of Arts and Sciences

### Advancement on Individual Merit

AIM Program/EOP  
Library W3520  
246-4016

**Discussion:** "Getting the Most from Stony Brook: An Introduction to Special Academic Programs"  
Thurs., Nov. 20, 2:30  
AIM Conference Room, Library W3520

**Advising:** AIM counselors are available by appt. between 10:00-3:00, Mon. to Fri.

### Africana Studies

Social & Behavioral S245  
246-6737 or 632-7470

**Open House:** "Introducing Africana Studies"  
Tues., Nov. 18, 12:00-3:00  
SBS S226

**Advising:** Offices are in SBS  
Wed., Nov. 12 and 19  
10:00-11:30, C. Charles/S255  
1:00-3:30, B. McAdoo/S257  
1:50-2:45, C. Charles/S255  
2:00-4:00, A. Baraka/S247  
Thurs., Nov. 13 and 20  
9:30-11:30, E. Dube/S251  
11:30-12:45, L. Owens/S235  
12:00-2:00, A. Baraka/S247  
1:30-2:30, E. Dube/S251  
Mon., Nov. 17  
10:00-11:30, C. Charles/S255  
1:00-3:30, B. McAdoo/S257  
1:50-2:45, C. Charles/S255  
Tues., Nov. 18  
9:30-11:30, E. Dube/S251  
11:30-12:45, L. Owens/S235  
12:00-2:00, A. Baraka/S247  
1:30-2:30, E. Dube/S251

## Anthropology

Social & Behavioral Sciences S507  
246-7726 or 632-7625

**Discussion:** "Anthropology at Stony Brook: Undergraduate Opportunities in the Fields of Socio-Cultural Anthropology, Archaeology, Physical Anthropology"  
Tues., Nov. 18, 2:00  
SBS 5th floor lobby

**Open House:** To follow discussion  
Tues., Nov. 18

**Advising:** Offices are in SBS  
Wed., Nov. 12 and 19  
1:30-3:00, L. Martin/S507  
Thurs., Nov. 13 and 20  
2:00-5:00, L. Martin/S507  
Fri., Nov. 14 and 21  
2:00-4:00, L. Martin/S507  
Mon., Nov. 17  
1:30-3:00, L. Martin/S507

## Art

Fine Arts 2225  
246-7070 or 632-7250

**Open House:** Tues., Nov. 18,  
1:00-3:00  
Fine Arts Ctr., 2nd floor foyer (Art Dept. side)

**Lecture:** "A Few Plots," by  
Prof. Y.J. Bao  
Tues., Nov. 18, 12:00, Fine Arts Ctr.

**Exhibition:** "Women Artists of the Surrealist Movement"  
Tues.-Sat., Nov. 18-Jan. 10,  
12:00-4:00  
Fine Arts Gallery

**Advising:** Offices are in Fine Arts  
Wed., Nov. 12 and 19  
11:00-1:00, J. Guilmain/2226A  
Thurs., Nov. 13 and 20  
10:00-11:00, J. Guilmain/2226A  
1:00-2:00, J. Guilmain/2226A  
1:00-5:00, M. Pekarsky/2221  
Tues., Nov. 18  
10:00-11:00, J. Guilmain/2226A  
10:00-12:00, A. Moskowitz/2216  
1:00-2:00, J. Guilmain/2226A  
1:00-5:00, M. Pekarsky/2221  
2:30-4:30, A. Moskowitz/2216

## Biochemistry Biological Sciences

Biochemistry-Life Sciences 450  
632-8850  
Biological Science-Life Sciences 130  
632-8530

**Advising Fair:** For Prospective Biology/  
Biochemistry Majors  
Wed., Nov. 12, 1:00-3:30  
Life Sciences lobby

**Advising:** Biological Sciences and  
Biochemistry faculty office hours  
posted in Life Sciences 130.

## Chemistry Engineering Chemistry

Grad Chemistry 113  
632-7884

**Tour and Discussion:** Three tours of  
chemistry research labs followed by  
informal discussions.

Thurs., Nov. 13, 12:30, 1:30, 2:30  
Chemistry Labs

**Advising:** Offices are in Chemistry  
Wed., Nov. 12  
11:00-12:00, F. Bonner/559  
Thurs., Nov. 13  
10:00-11:00, P. Johnson/561  
Fri., Nov. 14 and 21  
1:15-3:30, R. Kerber/103  
Mon., Nov. 17  
11:00-12:00, T. Ishida/441  
Tues., Nov. 18  
9:30-11:00, R. Kerber/103  
Wed., Nov. 19  
10:00-12:00, S. Sujishi/575  
Thurs., Nov. 20  
1:30-2:30, H. Friedman/413

## Comparative Literature, Classics, Judaic Studies, and Humanities

Library E4326, E4309  
246-6059, 6057

**Advising:** Offices are in Library  
Wed., Nov. 12 and 19  
12:30-2:00, A. Godfrey/E4322  
11:45-12:45, R. Hoberman/E4325  
2:00-3:00, K. Gabbard/E4316  
Thurs., Nov. 13 and 20  
11:30-12:30, C. Kessner/E4330  
1:00-2:00, R. Goldenberg/E4310  
1:00-2:30, L. Vasvari/E4318  
2:00-4:00, H. Gross/E4328  
2:30-3:30, C. Lasker/E4326  
Fri., Nov. 14 and 21  
11:45-12:45, R. Hoberman/E4325  
12:30-2:00, A. Godfrey/E4322  
Mon., Nov. 17  
10:30-11:30, K. Gabbard/E4316  
11:45-12:45, R. Hoberman/E4325  
12:30-2:00, A. Godfrey/E4322  
Tues., Nov. 18  
11:30-12:30, C. Kessner/E4330  
1:00-2:00, R. Goldenberg/E4310  
2:30-3:30, C. Lasker/E4326  
4:00-5:30, L. Vasvari/E4318

## Earth and Space Sciences

Earth and Space Sciences 245  
246-6541 or 632-2199

**Discussion:** "Career Opportunities in  
Geology and Astronomy"  
Wed., Nov. 19, 4:30  
ESS 123

**Advising:** Offices are in ESS  
Wed., Nov. 12  
11:00-1:00, C. Thurber, GEO/356  
4:00-5:30, J. Hardorp, AST/440  
Thurs., Nov. 13 and 20  
2:00-4:00, C. Thurber, GEO/356  
4:00-5:30, J. Hardorp, AST/440  
Fri., Nov. 14  
1:00-2:00, D. Davis, ESS/354  
Mon., Nov. 17  
11:00-1:00, C. Thurber, GEO/356  
1:00-3:00, D. Davis, ESS/354  
Tues., Nov. 18  
3:00-4:00, C. Thurber, GEO/356  
4:00-5:30, J. Hardorp, AST/440  
Wed., Nov. 19  
1:00-3:00, D. Davis, ESS/354

## Economics

Social & Behavioral Sciences S601  
246-5078, 5070

**Open House:** "Answers about the  
Major, Spring Courses"  
Wed., Nov. 12, 3:30-5:00

**Advising:** Offices are in SBS  
Wed., Nov. 12  
10:30-11:30, C. Staley/N639  
10:30-11:30, T. Coleman/S629  
11:30-12:30, W. Dawes/S641  
2:00-3:00, M. Kristein/N641  
Thurs., Nov. 13  
1:00-2:15, L. Locay/N651  
2:30-3:30, J. Anton/N645  
Fri., Nov. 14 and 21  
9:30-10:30, M. Kristein/N641  
10:30-11:30, C. Staley/N639  
Mon., Nov. 17  
10:30-11:30, T. Coleman/S629  
10:30-11:30, C. Staley/N639  
2:00-3:00, M. Zweig/S645  
3:00-4:00, J. Brown/N617  
Tues., Nov. 18  
1:00-2:15, L. Locay/N651  
1:00-2:00, W. Dawes/S641  
1:30-3:30, J. Hause/N613  
2:30-3:30, J. Anton/N645  
Wed., Nov. 19  
10:30-11:30, C. Staley/N639  
11:30-12:30, W. Dawes/S641  
2:00-3:00, M. Zweig/S645  
3:00-4:00, J. Brown/N617  
Thurs., Nov. 20  
1:00-2:00, L. Locay/N651  
2:30-3:30, J. Anton/N645

## English

Humanities 259  
246-5091 or 632-0602

**Open House:** Wed., Nov. 12,  
1:00-2:00  
Faculty Lounge, Humanities 283

**Discussion:** "What Can You Do with  
an English B.A.?"

Wed., Nov. 12, 2:00-3:00  
Poetry Center, Humanities 239

**Reading:** "Poetry by Faculty and  
Students"  
Wed., Nov. 12, 11:30-1:00  
Poetry Center, Humanities 239

**Advising:** Offices are in Humanities  
Wed., Nov. 12  
10:00-5:00, R. Jenkins/259  
Thurs., Nov. 13 and 20  
10:00-2:00, TBA/see 259 for schedule  
Fri., Nov. 14  
10:00-3:00, R. Jenkins/259  
Mon., Nov. 17  
10:00-5:00, R. Jenkins/259  
Tues., Nov. 18  
10:00-2:00, TBA/see 259 for schedule  
Wed., Nov. 19  
10:00-4:00, R. Jenkins/259  
Fri., Nov. 21  
10:00-2:00, R. Jenkins/259

## Federated Learning Communities

Educational Communications Center 237  
246-6107, 8611

**Advising:** Offices are in ECC 237  
Daily, 9:00-5:00

## Foreign Languages

**French and Italian**  
Library N4004  
246-8676 or 632-7440

**Discussion:** "Majoring and Minorng  
in French and Italian"  
Mon., Nov. 17, 1:00  
Library N4006

**Advising:** Wed., Nov. 12 and 19  
10:00-12:00, M. Whitney/Lib N4004  
10:30-12:30, A. Forti-Lewis/Lib N4063  
11:00-12:00, E. Riggs/SBS S117  
3:00-5:00, H. Allentuch/Lib N4070  
Thurs., Nov. 13  
9:15-10:00, C. Franco/Lib N4071  
11:30-1:00, C. Franco/Lib N4071  
11:30-3:00, M. Whitney/Lib N4004  
Fri., Nov. 14  
10:15-11:40, H. Allentuch/Lib N4070  
10:30-12:30, A. Forti-Lewis/Lib N4063  
11:00-12:00, E. Riggs/SBS S117  
Mon., Nov. 17  
10:15-11:40, H. Allentuch/Lib N4070  
10:30-12:30, A. Forti-Lewis/Lib N4063  
11:00-12:00, E. Riggs/SBS S117  
Tues., Nov. 18  
9:15-10:00, C. Franco/Lib N4071  
11:30-1:00, C. Franco/Lib N4071  
Thurs., Nov. 20  
9:15-10:00, C. Franco/Lib N4071  
11:30-1:00, C. Franco/Lib N4071  
1:15-2:15, O. Haac/Lib N4019  
Fri., Nov. 21  
10:15-11:40, H. Allentuch/Lib N4070  
10:30-12:30, A. Forti-Lewis/Lib N4063

## Germanic and Slavic Languages

Library N3009  
246-6830 OR 632-7360

**Advising:** Offices are in Library

*Wed., Nov. 12 and 19*  
9:30-11:00, J. Russell/N3009  
12:00-1:00, T. Kerth/N3006  
*Thurs., Nov. 13 and 20*  
9:30-11:00, J. Russell/N3009  
12:30-2:15, T. Kerth/N3006  
2:30-4:00, L. Vogel/N3088  
*Fri., Nov. 14 and 21*  
9:30-11:00, J. Russell/N3009  
12:00-1:45, T. Kerth/N3006  
*Mon., Nov. 17*  
9:30-11:00, J. Russell/N3009  
12:00-1:00, T. Kerth/N3006  
*Tues., Nov. 18*  
9:30-11:00, J. Russell/N3009  
2:30-4:00, L. Vogel/N3088

## Hispanic Languages

Library N3017  
246-5685, 5691 or 632-6950, 6935

**Open House:** *Wed., Nov. 12, 1:00*  
Library N3017

**Advising:** Offices are in Library

*Wed., Nov. 12 and 19*  
11:00-12:00, R. de la Campa/N3022  
11:00-1:00, P. Lastra/N3030  
11:30-12:00, R. Caparros/N3042  
2:30-3:50, H. Pato/N3029  
*Thurs., Nov. 13 and 20*  
9:00-10:00, L.C. Deutsch/N3026  
1:00-2:00, F. Klein-Andreu/N3014  
2:30-3:50, J. Giordano/N3018  
2:30-3:45, G. Sabat-Rivers/N3025  
5:30-6:00, H. Pato/N3029  
*Fri., Nov. 14 and 21*  
10:30-11:30, M.L. Nunes/N3028  
11:35-12:00, R. Caparros/N3042  
*Mon., Nov. 17*  
10:30-11:30, M.L. Nunes/N3028  
1:00-2:00, R. de la Campa/N3022  
6:00-7:00, L.C. Deutsch/N3025  
*Tues., Nov. 18*  
9:00-10:00, L.C. Deutsch/N3026  
12:00-12:50, J. Giordano/N3018  
1:00-2:00, F. Klein-Andreu/N3014  
2:30-3:45, G. Sabat-Rivers/N3025  
5:00-6:00, T. Rzhnevsky/N3042

## History

Social & Behavioral Sciences S301  
246-6500 or 632-7500

**Discussion:** "Majoring or Minor in History: Auntie Helen Plans Your Life"  
*Thurs., Nov. 13, 12:00-2:00*  
SBS N303

**Advising:** Offices are in SBS

*Wed., Nov. 12 and 19*  
10:30-1:30, R. Lee/S329  
1:00-2:00, H. Lemay/S317  
1:00-2:00, M. Barnhart/N321  
2:00-4:00, J. Pratt/S351  
*Fri., Nov. 14 and 21*  
10:30-1:30, R. Lee/S329  
10:45-11:30, H. Lemay/S317

*Mon., Nov. 17*

10:30-1:30, R. Lee/S329  
1:00-2:00, H. Lemay/S317  
1:00-2:30, M. Barnhart/N321  
*Tues., Nov. 18*  
9:00-11:30, H. Lemay/S317  
11:30-12:15, P. Alin/S333  
*Thurs., Nov. 20*  
9:00-11:30, H. Lemay/S317  
11:30-12:15, P. Alin/S333

## International Programs

Central Hall 105  
246-7711 or 632-0447

**Discussion:** "Study Abroad: How to Apply and Where to Go"  
*Wed., Nov. 12, 2:00-4:00*  
Central Hall 105

**Advising:** Office is in Central Hall 105  
Daily advising, M. Giron

## Linguistics

Social & Behavioral Sciences N511  
246-3452 or 632-7777

**Advising:** Offices are in SBS

*Wed., Nov. 12 and 19*  
10:30-11:30, M. Aronoff/N509  
1:00-3:00, D. Finer/N541  
1:30-3:00, F. Anshen/N521  
2:00-3:00, E. Broselow/N525  
*Thurs., Nov. 13 and 20*  
10:00-12:00, M. Aronoff/N509  
1:30-2:30, A. Carton/N517  
2:30-3:30, S. Ansara/N521  
*Fri., Nov. 14 and 21*  
11:00-12:00, E. Broselow/N525  
11:00-12:00, D. Finer/N541  
*Mon., Nov. 17*  
10:30-11:30, M. Aronoff/N509  
11:00-12:00, E. Broselow/N525  
1:30-3:00, F. Anshen/N513  
*Tues., Nov. 18*  
11:30-12:30, A. Carton/N517  
2:30-3:30, S. Ansara/N521

## Mathematics

Mathematics P143  
246-6520

**Discussion and Film:** "Career Opportunities in the Mathematical Sciences" by Prof. Geller  
*Thurs., Nov. 13, 4:00*  
Mathematics P131

**Advising:** Faculty are available in Mathematics P143

*Wed., Nov. 12 and 19*  
12:50-2:50  
*Thurs., Nov. 13 and 20*  
1:00-2:00  
*Fri., Nov. 14 and 21*  
12:50-2:50  
*Mon., Nov. 17*  
12:50-2:50  
*Tues., Nov. 18*  
1:00-2:00

## Music

3304 Fine Arts Center  
246-5672

**Discussion:** "Music: The Sounds of Non-Major and Major Courses"  
*Mon., Nov. 17, 3:30-5:00*  
Fine Arts, 1st floor lounge

**Advising:** Offices are in Fine Arts  
*Wed., Nov. 12 and 19*

2:00-3:00, J. Lochhead/3330  
*Thurs., Nov. 13*  
2:30-3:30, S. Fuller/3328  
*Mon., Nov. 17*  
12:00-1:00, B.J. Layton/3318  
*Tues., Nov. 18*  
1:00-2:00, A. Rubin/3332  
2:00-4:00, S. Silver/3316  
*Thurs., Nov. 20*  
8:45-9:45, M. Cherlin/3320  
*Fri., Nov. 21*  
2:00-3:00, J. Lochhead/3330

## Philosophy

Harriman 221  
246-6560, 6566 or 632-7575, 7570

**Discussion:** "Why Study Philosophy?"  
*Thurs., Nov. 13, 12:00*  
Harriman 214

**Open House:** *Thurs., Nov. 13, 1:00*  
Harriman 214

**Graduate Student Talk:** "Socrates' Erotic Strategy in the Symposium,"  
T. Brockelman  
*Thurs., Nov. 13, 4:00*  
Harriman 214

**Advising:** Offices are in Harriman

*Wed., Nov. 12*  
11:00-12:30, P. Athay/244  
1:00-2:45, L. Miller/245  
*Thurs., Nov. 13*  
10:00-11:00, A. DeNicolas/247  
2:00-4:00, E. Kittay/241  
*Fri., Nov. 14 and 21*  
by appt., R. Nolan/221  
*Mon., Nov. 17*  
11:00-12:00, P. Heelan/223  
1:00-2:00, R. Nolan/221  
*Tues., Nov. 18*  
12:00-2:00, C. Martin/248  
2:30-3:30, M. Spector/219  
*Wed., Nov. 19*  
11:00-12:00, R. Nolan/221  
2:00-3:00, A. Weston/258

## Physics

Physics P110  
246-6580

**Discussion:** "Career Opportunities in Physics"  
*Wed., Nov. 12, 2:00-3:30*  
Physics C120

**Advising:** Offices are in Grad Physics

Wed., Nov. 12  
 9:00-10:30, H.R. Muether/A102  
 Thurs., Nov. 13  
 11:00-12:30, H.R. Muether/A102  
 3:00-4:30, H.R. Muether/A102  
 Fri., Nov. 14 and 21  
 9:00-10:30, H.R. Muether/A102  
 2:00-3:00, R.A. Mould/A109  
 Mon., Nov. 17  
 9:00-10:30, H.R. Muether/A102  
 4:00-5:00, R.A. Mould/A109  
 Tues., Nov. 18  
 11:00-12:30, H.R. Muether/A102  
 3:00-4:30, H.R. Muether/A102  
 Wed., Nov. 19  
 9:00-10:30, H.R. Muether/A102  
 2:00-3:00, R.A. Mould/A109  
 Thurs., Nov. 20  
 11:00-12:30, H.R. Muether/A102  
 2:00-3:00, R.A. Mould/A109  
 3:00-4:30, H.R. Muether/A102

### Political Science

Social & Behavioral Sciences N711  
 246-8434 or 632-7661

**Open House:** Wed., Nov. 12,  
 1:00-3:00  
 SBS 7th floor lobby

**Advising:** Offices are in SBS  
 Wed., Nov. 12  
 10:00-11:00, J. Segal/N747  
 10:30-12:00, M. Travis/S747  
 1:00-2:30, M. Mericle/N721  
 Thurs., Nov. 13  
 9:30-11:00, P. Baumann/N709  
 10:30-12:00, A. Abramowitz/S719  
 1:00-3:00, D. Moskowitz/N741  
 Fri., Nov. 14  
 9:30-10:30, A. Cover/N711  
 11:35-12:00, A. Cover/N711  
 11:45-12:40, C. Cameron/S731  
 Mon., Nov. 17  
 9:30-10:30, A. Cover/N711  
 11:35-12:00, A. Cover/N711  
 12:30-1:30, M. Lodge/N717  
 2:00-3:00, E. Brodwin/S733  
 Tues., Nov. 18  
 9:30-11:00, J. Enelow/S723  
 10:00-11:00, H. Norpoth/N731  
 1:30-2:30, M. Schneider/S711, N725  
 Wed., Nov. 19  
 10:00-12:00, S. Iyengar/S715  
 10:30-12:00, M. Travis/S747  
 11:00-12:00, H. Scarrow/S743  
 Thurs., Nov. 20  
 9:00-10:00, K. McGraw/S735  
 12:00-1:00, R. Thapa/S747  
 1:30-2:30, M. Schneider/S711, N725  
 Fri., Nov. 21  
 10:00-11:00, H. Norpoth/N731  
 10:00-12:00, S. Iyengar/S715

### Psychology

Psychology B 115  
 246-3300

**Open House:** "Opportunities for the  
 Psychology Major"  
 Mon., Nov. 17, 2:00-4:00  
 Psychology A 257

### Workshop: "Graduate Training in Psychology"

Wed., Nov. 19, 7:30-9:30  
 Psychology A 137

### Advising: Offices are in Psychology B

Wed., Nov. 12  
 2:00-3:00, A. Ross/375  
 2:00-3:30, H. Waters/356  
 Thurs., Nov. 13 and 20  
 1:00-2:00, D. Pomeranz/222  
 Fri., Nov. 14  
 2:00-3:30, H. Waters/356  
 Mon., Nov. 17  
 2:00-3:30, H. Waters/356  
 3:00-4:00, A. Ross/375  
 9:00-12:00, D. Pomeranz/222  
 Tues., Nov. 18  
 2:00-3:00, A. Ross/375  
 12:00-2:00, M. Peterson/252  
 Wed., Nov. 19  
 12:00-2:00, M. Peterson/252  
 2:00-3:30, H. Waters/356  
 Fri., Nov. 21  
 10:00-12:00, M. Peterson/252

### Religious Studies

Harriman 103  
 246-7783 or 632-7310

### Returning Student Network

Office of Undergraduate Studies  
 Library E3320  
 246-3420 or 632-7080

**Advising Fair:** Thurs., Nov. 13,  
 1:00-4:00  
 Humanities 319

**Advising:** Staff in Center for  
 Academic Advising, Library E3310, are  
 available daily from 9:00-5:00

### Social Sciences Interdisciplinary

Social & Behavioral Sciences S201  
 246-8443 or 632-7685

**Slide Presentation:** "Women Against  
 Pornography"  
 Wed., Nov. 12, 2:00-4:00  
 SBS N207

**Advising:** Offices are in SBS  
 Wed., Nov. 12 and 19  
 9:30-10:30, S. Sternglanz/S211  
 11:00-12:00, B. Baskin/N253  
 1:00-2:30, G. Fourn/S227  
 3:00-4:30, B. Birns/S215  
 3:00-4:30, J. Kuchner/S231  
 Thurs., Nov. 13 and 20  
 9:00-10:30, E. Seifman/S201  
 10:00-11:00, J. Wishnia/S213  
 Mon., Nov. 17  
 11:30-12:30, B. Baskin/N253  
 1:00-2:30, G. Fourn/S227  
 3:00-4:30, B. Birns/S215  
 3:00-4:30, J. Kuchner/S231  
 Tues., Nov. 18  
 9:00-10:30, E. Seifman/S201  
 10:00-11:00, J. Wishnia/S213  
 2:30-4:30, S.M. Hu/S219  
 5:00-6:00, J. Wishnia/S213

### Sociology

Social & Behavioral Sciences S406  
 246-8681

### Advising: Offices are in SBS

Wed., Nov. 12  
 9:40-10:00, D. Halle/S437  
 10:00-11:00, J. Tanur/N427  
 2:30-4:00, P. Roos/S441  
 Thurs., Nov. 13  
 9:00-10:00, J. Tanur/N427  
 10:30-11:30, S. Feld/N423  
 2:30-3:30, E. Goode/N447  
 Fri., Nov. 14  
 11:30-1:30, D. Barthel/S406  
 3:00-4:00, D. Barthel/S406  
 Mon., Nov. 17  
 9:40-10:00, D. Halle/S437  
 10:30-12:00, P. Roos/S441  
 Tues., Nov. 18  
 10:30-11:30, S. Feld/N423  
 11:30-12:30, E. Goode/N447  
 4:00-5:00, S. Feld/N423  
 Wed., Nov. 19  
 9:40-10:00, D. Halle/S437  
 12:00-1:00, F. Romo/S453  
 2:00-3:30, D. Halle/S437  
 Thurs., Nov. 20  
 9:00-10:00, J. Tanur/N427  
 2:30-3:30, E. Goode/N447  
 Fri., Nov. 21  
 12:00-2:00, F. Romo/S453  
 3:00-4:00, D. Barthel/S406

### Theatre Arts

Fine Arts II 3046  
 246-5670

### College of Engineering and Applied Sciences

**Seminar:** "Second Annual  
 Engineering Seminar"—Professional  
 engineers covering topics of interest to  
 all CEAS majors. Sponsor: Stony Brook  
 Student Chapter of the National  
 Society of Professional Engineers  
 Thurs., Nov. 20, 5:30-8:30  
 Light Engineering Lecture Hall

### Applied Mathematics and Statistics

Math Tower P139A  
 246-6773 or 632-8370

**Discussion:** "Careers in Applied  
 Mathematics"  
 Mon., Nov. 17, 12:35-1:30  
 Math Tower P131

**Open House:** "The Applied  
 Mathematics and Statistics Major for  
 Transfer Students"  
 Mon., Nov. 17, 7:30 p.m.  
 Math Tower P131

**Advising:** Offices are in Math Tower  
 Thurs., Nov. 13  
 4:00-5:00, N. Mendell/I-105

Fri., Nov. 14  
12:30-1:30, H.K. Liu/I-114  
Mon., Nov. 17  
9:30-10:30, T. Hagstrom/I-105  
4:00-5:00, N. Mendell/I-115  
Tues., Nov. 18  
2:30-3:30, N. Mendell/I-115  
3:30-4:30, H.K. Liu/I-114  
Wed., Nov., 19  
9:30-10:30, T. Hagstrom/I-105  
12:30-1:30, H.K. Liu/I-114  
Thurs., Nov. 20  
1:00-3:00, T. Hagstrom/I-105

## Computer Science

Lab Office Building 1401  
246-7146

**Acceptance into the CSE Major:** See BULLETIN, p. 205.

**Advising:** Offices are in Lab Office Building  
Wed., Nov. 12 and 19  
10:00-11:00, H. Badr/1424  
10:00-11:00, I.V. Ramakrishnan/1421  
11:00-12:00, G. Leahy/1412  
2:30-3:30, S. Smolka/1423  
Thurs., Nov. 13 and 20  
9:00-10:00, D. Lingle/1434  
11:00-12:00, G. Leahy/1412  
12:00-1:00, H. Badr/1424  
2:30-4:00, M. Srivas/1425  
4:00-5:00, P. Mishra, A. Giacalone,  
J. Hsiang, E. Stark/1401  
Fri., Nov. 14 and 21  
12:00-1:00, H. Badr/1424  
Mon., Nov. 17  
10:00-11:00, I.V. Ramakrishnan/1421  
11:00-12:00, G. Leahy/1412  
2:30-3:30, S. Smolka/1423  
4:00-5:00, A. Giacalone/1416  
Tues., Nov. 18  
9:00-10:00, D. Lingle/1434  
2:30-4:00, M. Srivas/1425  
4:00-5:00, P. Mishra, J. Hsiang,  
E. Stark/1401

**Acceptance into an Engineering Major: Electrical Engineering, Mechanical Engineering, Engineering Science**

If you wish to take your degree in an engineering program but you have not been signed into the major of your choice, you should register during Prime Time in Old Engineering 127. Transcripts of those who registered will be reviewed, and each department will accept as many in its major as are qualified and can be accommodated. The decision will be based on grades in mathematics and the sciences.

## Electrical Engineering

Light Engineering 273  
246-6757 or 632-8400

**Open House:** "Information on Electrical Engineering for Non-EE Majors"  
Tues., Nov. 18, 12:00-1:00  
Light Engineering 202

**Advising:** Offices are in Light Engineering

Wed., Nov. 12  
11:00-3:00, N. Pashtoon/267  
Thurs., Nov. 13  
8:30-12:30, H. Dhadwal/267  
Fri., Nov. 14  
11:00-3:00, S. Sussman-Fort/267  
Mon., Nov. 17  
11:00-3:00, C.T. Chen/267  
Tues., Nov. 18  
1:00-5:00, H.S. Don/267

## Engineering Science

Engineering 314  
246-6759

**Open House:** "Discussions on the Engineering Science Program"  
Wed., Nov. 19, 3:00-5:00  
Engineering 301

**Advising:** Offices are in Engineering  
Wed., Nov. 12 and 19  
12:00-1:00, M. Dudley/318  
Thurs., Nov. 13 and 20  
12:00-1:00, J. Broughton/209  
Fri., Nov. 14 and 21  
8:30-5:00, J. Pidot/314  
Mon., Nov. 17  
12:00-1:00, M. Dudley/318  
Tues., Nov. 18  
12:00-1:00, J. Broughton/209

## Mechanical Engineering

Light Engineering 113  
246-6771

**Discussion:** "Mechanical Engineering as a Major and as a Profession"  
Wed., Nov. 12, 12:00  
Old Engineering 301

**Special Advising:** "For Change of Major"  
Wed., Nov. 12, 1:00-4:00  
Light Engineering 107

**Advising:** Offices are in Heavy Engineering (HE) and Light Engineering (LE)  
Thurs., Nov. 13  
2:30-4:00, M. Mayourian/LE 175  
Fri., Nov. 14  
10:40-11:40, A. Rubinstein/LE 141  
Mon., Nov. 17  
11:45-1:15, L.S. Wang/HE 214  
Tues., Nov. 18  
4:00-5:00, J. Fox/LE 161  
Wed., Nov. 19  
10:40-11:40, A. Rubinstein/LE 141  
Thurs., Nov. 20  
4:00-5:00k, J. Fox/LE 161  
Fri., Nov. 21  
11:45-1:15, L.S. Wang/HE 214

## Minor in Technology and Society

Old Engineering 210  
246-8427

**Open House:** "Computer Simulations and Other Technology Applications"  
Tues., Nov. 18, 10:30-12:00  
Old Engineering 214

**Advising:** Offices are in Old Engineering  
Wed., Nov. 12 and 19  
9:00-12:00, M. Visich/100  
11:00-12:00, T.T. Liao/210  
3:00-4:00, D.L. Ferguson/210  
Fri., Nov. 14 and 21  
11:00-12:00, T.T. Liao/210  
Mon., Nov. 17  
9:00-12:00, M. Visich/100  
11:00-12:00, T.T. Liao/210  
3:00-4:00, D.L. Ferguson/210

## W. Averell Harriman College for Policy Analysis and Public Management

Harriman 314  
246-8280 or 632-7180

**Discussion:** "Career Opportunities in Business and Government Management"  
Mon., Nov. 17, 11:00  
Harriman 312

**Advising:** Offices are in Harriman 314  
Daily, 10:00-4:00

## Computing Center

**Discussion:** "Computing for Everyone"—How to get accounts and information on computing available outside of class.  
Thurs., Nov. 20  
11:30-12:50, Psychology A 146  
2:30-3:50, Light Engineering 102

## Health Sciences Center

### School of Allied Health Professions

(Cardiorespiratory Sciences, Medical Technology, Physical Therapy, Physician's Assistant Education)  
Health Sciences Center L-2 040  
444-2250

**Open House:** Sat., Nov. 15, 2:00-5:00  
HSC Level 2  
General Information Session, 2:00-3:00  
Open Labs and Demonstrations, 3:00-5:00  
Individual Advising, 3:00-5:00 (Bring copy of your transcript)

### School of Nursing

Health Sciences Center L-2 242  
444-3200

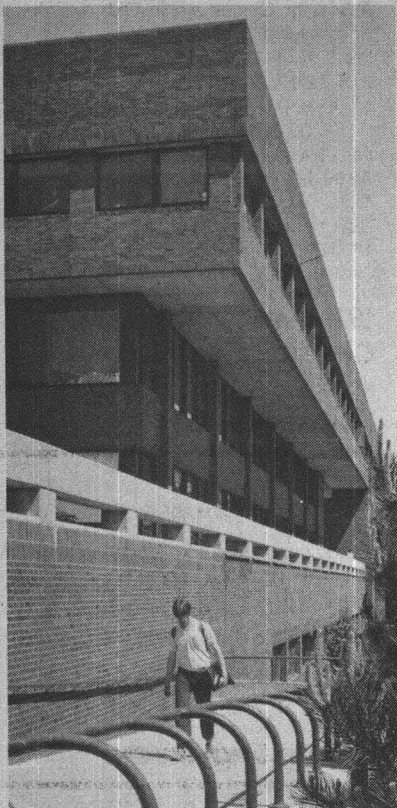
**Information and Advising Session:**  
1st Wednesday of each month, 3:00  
HSC, L-2, Office of Student Affairs 271

### School of Social Welfare

Health Sciences Center L-2 091  
444-3170

**Advising:** For information on advising hours call 444-3170, 2138

# General Academic Information



## University Core Curriculum

The University's new general education requirements went into effect in Fall 1986 for students matriculating as first-time freshmen in the 1986-87 academic year and as freshman transfers in January 1987. The requirements for these students, called the Core Curriculum Distribution and Skills Requirements, are set forth in the *Core Curriculum Bulletin, 1986-87*, which was distributed to freshmen.

Continuing students who matriculated at Stony Brook in Spring 1986 or before and transfer students matriculating in 1986-87 with more than 23 credits are not subject to these new requirements. They should not be confused by

such terms new to the Stony Brook campus as "core curriculum," "Category A, B, and C courses," and "study of another culture requirement." Nor should they confuse new freshmen by saying these things do not exist or are not necessary.

The new requirements, which have taken four years to develop, promise an enhanced undergraduate education for future Stony Brook graduates.

### Additions and Corrections to Core Course Lists

(Only changes in lower-division courses are shown.)

#### Humanities and Fine Arts

Category B: HAS 290

#### Social and Behavioral Sciences

Category A, Group 2: SBS 150

Category B: POL 106, 250

#### Study of Another Culture

ANT 140 has been removed and ANT 201, added.

## University Writing Requirement

### Writing Requirement—Lower Division

1. *Transfer Students.* The lower-division requirement has been changed to the extent that transfer students who passed a course equivalent to EGC 101 with a grade of C or higher do *not* have to take the English Placement Examination. The Office of Undergraduate Admissions has been reviewing transcripts from other schools so that appropriate credit for the Writing Requirement can be entered on Stony Brook records, a process that should be completed by the end of the Fall 1986 semester. Transfer students who (after they get their fall 1986 grade reports)

believe they have not been properly credited should consult the Office of Undergraduate Admissions.

2. A new method of grading for the Writing Requirement has been established: Students who do not receive a grade of C or higher in EGC 101 will be assigned a U grade, which conveys no credit, and must repeat the course in the following semester.
3. ANT 103, HIS 213, HIS 235, HUM 100, ISS 103, and POL 105 have been added to the list of Designated Advanced Writing Courses, which satisfy the University Writing Requirement for students who scored "Strong" on the English Placement Examination.

The English Placement Examination will be given on Wednesday, December 3 at 6:45 p.m. in Old Chemistry 116 and on Wednesday, January 28 in Javits Lecture Center 100 at 6:45 p.m. *The spring registration of any student who has not taken the Placement Examination, registered for the correct course, or completed the requirement will be blocked.*

Continuing students should bring their SUSB I.D., and all students should bring a pen, a pencil, and a dictionary. There is no advance registration for the examination.

## Upper-Division Elective Courses

Students are expected to fulfill their upper-division credit requirement with a combination of electives and major courses. All the Spring 1987 courses listed below make good upper-division electives for students majoring outside the department offering the course. These courses have either no specific prerequisites or call for one or two 100-level courses as prerequisites or (in a few cases) a popular 200-level course as a prerequisite. The last group lists courses having prerequisites that are not easily classified in a general way but that are likely to have been met by many students. Upper-division courses are designed for upper-division students.

### *No specific prerequisites:*

AFS 375  
HIS 300, 329, 333, 341, 376, 378  
SOC 302  
WNS 333

### *One specific prerequisite:*

ECO 317  
GEO 310  
HIS 304, 312, 339, 363, 379, 381, 384  
JDH 320  
JDS 327  
MUS 303, 309, 315  
PHI 312, 340, 353, 372, 375, 381, 384, 392, 393  
POL 306, 307, 311, 312, 313, 320, 323, 324, 327, 348, 349, 372, 374  
RLS 302, 320, 341, 370  
WNS 320

### *Two specific prerequisites:*

AFH 330  
AFS 337  
ANT 317, 352, 354, 355, 356, 358, 367  
CLT 331, 363  
EGL 362, 366, 370, 372, 374, 396  
HIS 319, 327, 353  
LIN 301, 330  
MAT 300  
MUS 316  
PHI 300, 306, 330, 360, 380  
POL 337, 356, 375  
PSY 311, 312, 315, 318, 321, 340, 342, 350  
SSI 320, 339  
WNS 307

### *Other prerequisites:*

ARH 301, 304, 313, 314, 322, 324, 341, 342  
MAR 333  
POL 360  
PSY 330, 352  
SOC 304, 308, 309, 310, 315, 320, 323, 337, 338, 344, 351, 352, 354, 356, 360, 371, 373, 375, 380, 381, 384, 390  
WNS 371

## Center for Continuing Education Courses

One course to be offered by the Center for Continuing Education in Spring 1987 will be open to qualified undergraduates: CEH 570 American Popular Music. Undergraduates must get permission from the Dean for Continuing Education before a CED course can count toward a baccalaureate degree. *Permission of the instructor is not enough.* See *BULLETIN*, p. 56, for further information about undergraduates taking CED courses.

## Study Abroad

The deadline for applications to study abroad in Spring 1987 through a program sponsored by Stony Brook was November 1. It is possible, however, that some accommodations may be available beyond the November 1 deadline. Interested students should inquire at the Office of International Programs. The Stony Brook-sponsored one-semester or academic-year programs are in Avignon, France; Chengdu, China; Lima, Peru; and Wroclaw and Warsaw, Poland. Academic year (only) programs are in Tübingen, Germany; Rome, Italy; and Paris, France. Stony Brook also sponsors summer programs in Avignon, Rome, and Warsaw. Students who are interested in participating in a study abroad program during the summer, fall, or 1987-88 academic year should keep in mind that the application deadline for these programs is April 1.

Deadlines for study abroad programs sponsored by other SUNY colleges vary, but they are generally around April 1 for summer and fall programs and November 1 for spring programs.

Information about all study abroad programs is available in the Office of International Programs, Central Hall 101. Students considering studying abroad in the future should plan their spring programs carefully to include both prerequisites for the program abroad and Stony Brook graduation requirements.

## Guide to Academic Help

The Office of Undergraduate Studies publishes a pamphlet, entitled *HELP*, that identifies opportunities and resources for advisory and tutorial help on campus. It is available in the Center for Academic Advising (one of the resources!), Library E-3310.





# College of Arts and Sciences

## Proficiency Requirements

### English

Continuing students who matriculated at Stony Brook as freshmen before Fall 1984 or as transfer students before Fall 1985 are still under the Arts and Sciences English Proficiency Requirement (see 1983-85 *BULLETIN*). Those who have not yet passed the English Proficiency Examination will have met the requirement if they received a grade of C or higher in EGC 101 or its equivalent at another college. Credit for completing the requirement in this way should appear on grade reports at the end of the Fall 1986 semester. Transfer students who, after receiving this grade report, believe they have not been properly credited should go to the Office of Undergraduate Admissions. Other students who believe a mistake has been made should go to the Center for Academic Advising.

Students who have neither passed the Proficiency Examination nor received a C or higher in EGC 101 should go to the Writing Programs Office.

### Foreign Languages

The requirement to earn a C or higher in any course taken to satisfy the foreign language proficiency requirement applies only to students who matriculated as freshmen in Fall 1985 and later. It also applies to new transfer students who matriculated in Fall 1986 and later. It does not apply to students who matriculated as freshmen before Fall 1985 or as transfer students before Fall 1986.

Foreign language proficiency examinations are usually offered by the language departments early in the fall and spring semesters. Students planning to satisfy their language proficiency requirement by examination should make arrangements with the appropriate department no later than the first day of classes for that semester.

### Mathematics

The Mathematics Proficiency Examination will be given on November 12 and December 10, by appointment. It will also be given during the first week of classes in the Mathematics Learning Center, Mathematics Building, Room S-235. Students are advised to review seriously the topics of "elementary algebra," which make up the bulk of the examination. Students should bring their SUSB I.D. and a No. 2 pencil to the test.

After the first week of classes, the proficiency examination is offered throughout the term on the second Wednesday of each month at 11:30 a.m. in the Mathematics Learning Center. It is necessary, however, to call Ms. Frank (246-3660 or 632-8245) for an appointment.

## Distribution Requirements

Students may use HAS 290 and HMC 361 to satisfy the Arts and Humanities requirement. EST 310 may be used for Natural Sciences and Mathematics.

## Course Credit and Prerequisites

Arts and Sciences students may now use 10 credits in physical education toward the University Credit Hour Requirement, but no more than 4 of these PEC credits may be in 100-level courses.

## Departmental Announcements and Courses

### Africana Studies

*Changes in expected semester of course offerings: AFS 249, 275, and 372 will not be offered in Spring 1987.*

### Special Topics for Spring 1987

#### AFS 420 Topics in Africana Studies Sec. 1: Social Issues in the Black Experience

An exploration (using some statistical and quantitative methods) of social, political, and economic issues affecting black lifestyles. Household structures and voting patterns will be studied using databases gathered from federal and state census reports.

*Prerequisite:* Permission of instructor (W. McAdoo)

#### Sec. 2: Marcus Garvey and Social Change

The life and times of Marcus Garvey and the U.N.I.A. The focus is on the concept of black nationalism, its origins, and the kinds of awareness of the black past that it highlighted.

(L. Owens)

## Anthropology

A brochure with extended descriptions of Anthropology courses for Spring 1987 is available in Social and Behavioral Sciences S-507.

Changes in expected semester of course offerings: ANP 320, 391, 403, 421; ANT 201, 219, 255, 280, 307, 312, 316, 330, 361, 366, 392, will not be offered in Spring 1987. ANT 330 and 372 have been deleted from the curriculum. ANT 251, 312, 316, and 392 will be offered in Fall 1987; ANT 201, 219, 255, 280, and 357 will be offered in Spring 1988.

The physical anthropology program has been revamped and expanded. Courses in this area are identified by the new designator, ANP. All ANP courses satisfy the Natural Sciences and Mathematics distribution area.

There is a typographical error in the prerequisite for ANT 360 shown in the BULLETIN. It should be ANT 316.

### Revised Major Requirements

The major now requires at least 21 credits of upper-division courses. Details of the revised major requirements are available from the Anthropology Department.

### Revised Minor Requirements

The Anthropology Department has revised its minor to include four tracks: general anthropology, sociocultural anthropology, archaeology, and physical anthropology. Details of the requirements for these tracks are available from the Anthropology Department.

### ANP 120 Introduction to Physical Anthropology (REVISED—formerly ANT 120)

An introduction to the evolutionary study of humankind. The development of scientific and revolutionary thought and method. The biological basis of inheritance and variation. Human adaptations and variability in relation to the environment. Physical characteristics and behavior of living primates. Evolution of the primates. Current research on human origins.

### ANP 121—Laboratory in Introductory Physical Anthropology (REVISED—formerly ANT 121)

Only the designator has been changed.

### ANP 220 Human Evolution

(REVISED—formerly ANT 220)

A comprehensive survey of the fossil record for human evolution from the appearance of the earliest hominids to the emergence of modern humans, with emphasis on morphological and behavioral evolution in the human lineage.

### ANP 320 Primate Ethology

(REVISED—formerly ANT 320)

The comparative study of behavior of primates and other animals not closely related to humans but ecologically similar. Special emphasis will be paid to social organization and environmental parameters, as well as to the relationship between habitat and feeding strategies.

Prerequisites: ANP 120; one ANT course or two relevant courses in biological or social sciences as approved by the instructor

### ANP 321 Primate Evolution (NEW)

The evolution of the order Primates from the earliest origins up to the appearance of the human family. Relationships among living primates; reconstruction of common ancestral conditions. Primate origins; Eocene primates; anthropoid and catarrhine origins, evolution, and adaptations; hominoid origins, evolution, and adaptations.

Prerequisites: ANP 120; either ANP 220 or two relevant courses in biological sciences as approved by the instructor  
Fall, 3 credits

### ANP 322 Human Osteology (NEW)

An introduction to the anatomy of the human skeleton, with special emphasis on the interpretation of skeletal remains from archaeological contexts. Consideration will be given to the growth, structure, and function of bones, and to forensic aspects such as the determination of age, sex, stature, and pathology from skeletal remains.

Prerequisites: ANP 120, 220; ANT 104; permission of instructor  
Spring, 3 credits

### ANP 391 Topics in Physical Anthropology (NEW)

Discussion of a topic of current interest in physical anthropology. Topics may include human biology, dental anthropology, primate locomotion, diet and evolution, functional morphology.

Prerequisite: ANP 120; one other ANP course to be specified when topic is announced  
Fall or spring, 3 credits

### ANP 403 Problems in Physical Anthropology (REVISED—formerly ANT 403)

Prerequisites: ANP 120; one other ANP course to be specified when the topic is announced

Fall or spring, 3 credits

### ANP 421 Field Methods in Physical Anthropology (NEW)

Methods, problems, and experience in field techniques. Course will focus on field methods such as fossil excavation, reconstruction of skeletal and dental remains, anthropometry, craniometry. The specific focus may vary each year and will be announced in advance. May be repeated as topic varies.

Prerequisites: ANP 220 or 321; permission of instructor  
Fall or spring, 3 credits

### ANP 447 Readings in Physical Anthropology (NEW)

Individual advanced readings on selected topics in physical anthropology. Work may be submitted for honors in anthropology. May be repeated twice.

Prerequisites: ANP 220 and 321; permission of instructor  
Fall and spring, 3 credits

### ANP 475 Undergraduate Teaching Practicum (NEW)

Each student will conduct a regular recitation or tutorial section to supplement a lecture course and will receive regularly scheduled supervision from a faculty member. Responsibilities may include preparing material for discussion and helping students with research papers. Satisfactory/Unsatisfactory grading only.

Prerequisites: ANP 220, 321; permission of instructor  
Fall and spring, 3 credits

### ANP, ANT 476 Advanced Undergraduate Teaching Practicum (NEW)

Advanced training in the techniques of organization and management in the teaching of anthropology courses. Students will be expected to assume greater responsibility in such areas as leading discussions, designing homework, analyzing and evaluating test results, and observing and assisting new teaching assistants to develop new teaching techniques. Students may not serve as teaching assistants in the same course twice. It is expected that the course in which a student is permitted to work as a teaching assistant will be of at least equal difficulty as the course in which she or he previously served as teaching assistant. Satisfactory/Unsatisfactory grading only.

Prerequisites to ANP 476: ANP 475; permission of instructor  
Prerequisites to ANT 476: ANT 475; permission of instructor  
Fall and spring, 3 credits each

**ANP 487 Independent Research in Physical Anthropology (NEW)**

Independent research projects carried out by upper-division students. The student must prepare the research project, carry it out, analyze the data, and submit the results in a written form acceptable to the sponsor. This course may be used for the honors thesis in anthropology. May be repeated up to a limit of six credits.

*Prerequisites:* ANP 121, 220, 321; permission of instructor  
*Fall and spring, 3 to 6 credits*

**ANT 104 Introduction to Archaeological Theory and Method (REVISED)**

An overview of archaeology as a field of study and an introduction to the methods, goals, and theoretical concepts used by archaeologists. The course outlines how archaeologists make behavioral interpretations using the cultural material of past human societies. Techniques used to detect and study past settlements will be presented.

**ANT 160 The Individual in Society (NEW)**

A study of the ways in which individuals form stable communities and societies. The course focuses on the socialization of sexuality and aggression, conflict and social order, and social control. These and other problems are explored from the perspective of the psychological and social sciences. The role of individual men and women in group dynamics is viewed in cross-cultural perspective.

*Fall or spring, 3 credits*

**ANT 170 The New Guinea Highlands: A Case Study of Another Culture (NEW)**

An examination of the life of New Guinea Highlands peoples. Lectures supplemented by a strong audio-visual component will cover such topics as ecology, local groups, socialization, ceremonials, values, social change and development, and involvement in contemporary national affairs.

*Fall or spring, 3 credits*

**ANT 201 Peoples of South America (REVISED—formerly ANT 301)**

A survey of the social, cultural, and historical aspects of South American native peoples. Attention is given to issues of demography and biology, ecology, and cultural evolution. In-depth study of selected cultures and comparative study in selected cultural topics form the core of the course. Particular emphasis is given to topics of cultural contact, culture change, tribal cultures in a context of national development, and cultural pluralism.

*Prerequisite:* ANT 102 or 103

**ANT 290 Science and Technology in Ancient Society (NEW)**

Technology and society, including mining and engineering, from the earliest humans through the archaic non-Western civilizations of the Americas and the Near East. These technological achievements are related to the changes in the organization of the societies involved.

*Prerequisite:* ANP 120  
*Fall or spring, 3 credits*

**ANT 304 Peoples of Africa (REVISED)**

The study of the environment, history, and cultural and social institutions of representative cultures from the African continent. Topics will include ecology and the diversity of environmental settings, family structure and social organization, differing subsistence strategies, levels of sociopolitical complexity, religious beliefs, ideological systems, and ritual life.

**ANT 316 Old World Prehistory (REVISED)**

*Prerequisites:* ANT 104 and one other course in anthropology

**ANT 317 New World Anthropology (REVISED)**

A survey of the archaeological and historical Native American cultures of the New World with an emphasis on the pre-contact period. This will involve an overview of both North and Mesoamerica.

*Prerequisites:* ANT 104 and one other course in anthropology

**ANT 318 Topics in Middle Eastern Ethnography (REVISED)**

An investigation into a cultural group in the Middle East, such as Turkic, Arab, Iranian, or North African culture. Special attention is given to ecological and sociocultural adaptations of nomads, villagers, and urbanites. This course may be repeated as the topic varies.

**ANT 355 Anthropology of Law (REVISED)**

The handling and resolution of disputes in simple and complex societies. Courts, mediation, and the alternatives to law courts will be studied. Students will be introduced to the prevailing theories about conflict and its resolution in modern societies.

*Prerequisites:* ANT 102 or 103; one other anthropology course or POL 220

**ANT 357 Beginnings of Sedentary Life (REVISED)**

*Prerequisites:* ANT 104 and one other course in anthropology

**ANT 358 Ways to Civilization (REVISED)**

*Prerequisites:* ANT 104 and one other course in anthropology

**ANT 359 Mesoamerican Archaeology (REVISED)**

*Prerequisites:* ANT 357 or ANT 104 and one other course in anthropology

**ANT 373 Conflict Resolution and the Life Course (NEW)**

How conflicts over property or status at birth, adolescence, marriage, divorce, old age, and death are avoided and resolved in different societies. A fundamental question is which individuals at what points in the life course enter into conflicts with others and with the law.

*Prerequisite:* ANT 102 or 103  
*Fall or spring, 3 credits*

**ANT 421 Anthropological Field Methods (REVISED)**

*Prerequisite:* ANT 300 or 316 or 317 or 359 as specified when the topic is announced  
*3 to 6 credits*

**ANT 476 Advanced Undergraduate Teaching Practicum (NEW)**

See ANP, ANT 476 above, for description.

**Special Topics for Spring 1987**

**ANT 391 Topics in Anthropology: The Old Stone Age**

The earliest prehistory of humans and human ancestors, beginning with the origins of material culture over 2.5 million years ago. The role culture performed in human adaptation to changing environments of the Pleistocene. Paleolithic technology and the methods employed by archaeologists to interpret Paleolithic social organization, economics, and behavior.

*Prerequisites:* ANT 104; ANP or ANT 120  
*(R. Donahue)*

**ANT 402 Problems in Archaeology: Long Island Archaeology**

Theoretical problems dealing with hunting and gathering adaptations to a coastal environment. The prehistory of Long Island will be used as a case example with emphasis on the economic and social organization of the island's earliest inhabitants.

*Pre- or corequisite:* ANT 317  
*(K. Lightfoot)*

## Art

Changes in expected semester of course offerings: ARH 211, 317, 318, 320, 329, and 335 will not be offered this year; ARS 251 will not be offered in the spring. ARH 110, 204, 315, 323, 326, 331, 338, and ARS 190, 365, 366, 373, 374, 376 have been deleted from the curriculum.

There are two typographical errors in the list of requirements for the studio art major listed in the BULLETIN, p. 65. The correct requirement 2. is ARS 151, and the correct requirement 4. is ARH 341 and 342.

Advanced undergraduates may elect certain graduate courses in aspects of art history/criticism and studio art of particular interest to them. The requirement for registration is a 3.0 average in ARH or ARS courses and departmental permission. The courses are: ARH 501 History of Renaissance and Baroque Art Criticism and Theory, ARH 502 History of 19th-Century Art Criticism and Theory, ARH 503 History of 20th-Century Art Criticism and Theory, ARH 541 Topics in Ancient Art, ARH 542 Topics in Medieval Art, ARH 543 Topics in Renaissance Art, ARH 544, Topics in Baroque Art, ARH 545 Topics in 19th-Century Art, ARH 546 Topics in 20th-Century Art, ARH 547 Topics in Primitive Art; ARS 560 Graduate Sculpture Studio, ARS 570 Graduate Printmaking Studio. See the Graduate Bulletin for course descriptions.

Studio art majors may participate in open monitored model sessions every Friday from 10 a.m. to 1 p.m. It is not necessary to register for these sessions, and they bear no credit.

### **ARH 207 Art of the Ancient Near East (REVISED)**

*Prerequisites:* COR 101, 102; or ARH 101

### **ARH 230 Analysis and History of Western Architecture (NEW)**

The development of skills in the interpretation of Western architecture in the light of world history and culture, in terms of its technological as well as aesthetic aspects; architectural structures as human environments as well as forms in space; buildings as expression of a society, class, or social

structure, as well as historical styles. *Prerequisites:* ARH 101; one other humanities or social sciences course with a historical perspective  
*Alternate years, 3 credits*

### **ARH 300 Greek Art and Architecture (REVISED)**

*Prerequisites:* COR 101, 102, or ARH 101 and two other courses in the humanities

### **ARH 301 Roman Art and Architecture (REVISED)**

*Prerequisites:* COR 101, 102; or ARH 101 and two other courses in the humanities

### **ARH 303 The Art and Architecture of the Early Middle Ages, ca. 400-1050 (REVISED)**

*Prerequisites:* COR 101, 102; or ARH 101 and two other courses in the humanities

### **ARH 310 Renaissance Art in Venice (NEW)**

Venetian painting of the 15th and 16th centuries studied through the works of such major figures as Bellini, Mantegna, Giorgione, Titian, Veronese, and Tintoretto, stressing the special character and continuity of the art of Venice.

*Prerequisites:* ARH 102; two other courses in the humanities  
*Alternate years, 3 credits (not offered in 1987-88)*

### **ARH 313 Art of the United States (REVISED)**

*Prerequisites:* COR 101, 102; or ARH 101 and two other courses in the humanities

### **ARH 314 Baroque Painting in the Netherlands (NEW)**

The work of the major Flemish and Dutch painters of the 17th century with special emphasis on Rubens, Van Dyck, and Rembrandt. The various genres that flourished in Holland in the 17th century (portraiture, genre painting, landscape, etc.) will be studied through the works of the major figures in each field, such as Hals, Vermeer, and van Ruisdael.

*Prerequisites:* ARH 102; two other courses in the humanities  
*Alternate years, 3 credits (not offered in 1987-88)*

### **ARH 316 Baroque Art in Italy and France (NEW)**

Italian and French painting and sculpture in the 17th century. The painting of Caravaggio, the Carracci,

and their schools, and the sculpture of Bernini will be studied in detail with special emphasis on Rome. The study of French art both in Italy and France will focus particularly on the painting of the French caravaggisti, on Poussin and Claude Lorrain, and on the sculptors of Versailles.

*Prerequisites:* ARH 102; two other courses in the humanities  
*Alternate years, 3 credits (not offered in 1986-87)*

### **ARH 324 Architecture and Design of the 19th and 20th Centuries (REVISED)**

*Prerequisites:* ARH 101, 102; or ARH 230

### **ARH 329 Primitive Art (REVISED)**

*Prerequisites:* COR 101, 102; or ARH 101 and two other courses in the humanities

### **ARH 342 Art of the 20th Century (REVISED)**

*Prerequisites:* COR 101, 102; or ARH 101 and two other courses in the humanities

### **ARS 281 Photography I (REVISED)**

*Prerequisites:* Sophomore standing; interview; permission of instructor

### **ARS 291 Theory and Practice of Two-Dimensional Design (REVISED)**

A course in the exploration, analysis, and interpretation of the formal organization of the visual elements on two-dimensional surfaces. Elements such as line, shape, value, color, and space (including perspective studies) will be analyzed and applied to projects, according to principles that develop an organic unity in the total work of art.

*Prerequisites:* ARS 151, 152; permission of department

### **ARS 292 Theory and Practice of Three-Dimensional Design (REVISED)**

A course in the exploration, analysis, and interpretation of the formal organization of the visual elements in three-dimensional space. Elements such as mass, volume, plane, shape, and line will be analyzed and applied to projects in varied media, according to principles that develop an organic unity in the total work of art.

*Prerequisites:* ARS 151, 152; permission of department

### **ARS 355 Anatomical and Biological Illustration (NEW)**

An introduction to human anatomy for the studio artist who is interested in biological illustration. The course will provide an introduction to techniques of illustration utilizing as subject matter the skeleton, prosection, and cadaver dissection. Details of human anatomy will often be discussed by comparison of humans with other vertebrates. Lectures will precede each

laboratory/studio class and involve proportion, topographic, and surface anatomy; bone-muscle relationships and human movement; comparative form of visceral organs; and the comparative anatomy of humans and higher primates. Crosslisted with HBA 325.  
*Prerequisites:* ARS 152 or BIO 101 or 151

*Fall and Spring, 2 credits*

### **ARS 364 Advanced Theory and Practice of Ceramics (REVISED)**

An advanced course in ceramics, stressing sophisticated sculptural forms. Classwork will be based on individual projects that will stress the expression of ideas and image-making.

*Prerequisites:* ARH 341, 342; ARS 264; permission of department

*Note:* This course is acceptable retroactively as a studio/theory course. See Notes on the ARS major, item 1, 1985-87 BULLETIN, p. 65.

### **ARS 371 Intermediate Graphics: Intaglio and Relief Processes (REVISED)**

Increasing development of craft in etching, engraving, and woodcut, with growing emphasis on technical specialization and individual growth as an artist.

*Prerequisites:* ARS 271, 272; permission of department

### **ARS 372 Intermediate Graphics: Planographic Processes (REVISED)**

Increasing development of craft in lithography and silkscreen, with growing emphasis on technical specialization and individual growth as an artist.

*Prerequisites:* ARS 271, 272; permission of department

### **ARS 376 Advanced Theory and Practice of Graphics (REVISED)**

A graphic arts workshop and critique, stressing individual development and refinement of craft for the advanced student with professional intent.

Theories and methods of various printmakers and their times will be examined. May be repeated once.

*Prerequisites:* ARH 341 and 342; ARS 371 or 372; permission of instructor

### **ARS 390 Special Directed Studio Projects (REVISED)**

Explorations in studio areas not covered by the core curriculum. The student works under the guidance of a sponsor and is expected to complete a report, portfolio, or project. May be repeated once.

### **Special Topics for Spring 1987**

#### **ARS 422 Special Topics in Studio/Theory and Practice: Topics in Photography**

An in-depth course dealing with the photographic studio environment.

Special emphasis on color printing from both transparency and negative and 4x5 view camera techniques.

Concurrent lecture, studio, critique, and darkroom laboratory. Students must provide their own 35mm cameras and materials.

*Prerequisites:* ARS 281 and 282; portfolio review; permission of instructor (M. Edelson)

## **Biochemistry**

### **Revised Major Requirement**

PHY 251 is no longer required, and PHY 103, 104 may be taken in place of PHY 251, the requirement in Group B, item 5, is increased to two additional courses instead of only one. Group B, item 5 is now:

5. Two additional courses, totaling at least 5 credits, chosen from the following list, including at least one course which is marked with an asterisk (\*): BIO 310, 315, 322\*, 347, 355, 366\*, 374\*, 409\*, 410\*, CHE 302, 303, 345, 365, HBP 390\*, MAR 413, PHY 251, or selected graduate courses in Molecular Biology (BMO) or the Health Sciences Center, with the permission of the Undergraduate Advisor and the course instructor. Additional courses to meet this requirement may be approved each semester; a complete list can be obtained from the Biochemistry Department office.

## **Biological Sciences**

*Changes in expected semester of course offerings: BIO 102, 111, 113, 327, 341, and 379 will not be offered in Spring 1987. BIO 103, 104, 229, 345, 350, 356, 383, and 386 have been deleted from the curriculum.*

*The biology teacher preparation courses have been absorbed into the science (SCI) teacher preparation courses. See Science Teacher Preparation Program section for descriptions.*

### **Revised Major Requirement**

Up to eight credits (three credits for transfer students) of major electives may be chosen from a diverse list of courses offered by departments outside the Division of Biological Sciences. The current list is available from the Biology Undergraduate Studies Office.

### **Revised Minor Requirements**

Up to two credits of biology research (BIO 486, 487, 488, 489) and one credit of tutorial readings (BIO 446, 447, 448, 449) may be applied toward the minor. The list of substitute electives for the major does not apply to the minor.

### **BIO 204 Ecology of Food Production (NEW)**

A survey of the ecology of agricultural systems and the natural limits of food production. Topics include the impact of environmental factors on agricultural systems, the biology of food production by major crop plants, and the role that human population growth and evolution may play in global patterns of feast or famine. May not be taken for credit after BIO 347.

*Prerequisites:* Sophomore standing; a Natural Sciences Category A course  
*Fall, 3 credits*

### **BIO 230 Mammalian Physiology (REVISED)**

The title and description references to "human physiology" have been changed to "mammalian."

### **BIO 231 Anatomy Laboratory for Pre-Nursing Students (REVISED)**

Mammalian anatomy, including human material and an intensive dissection of the cat. Not for major credit.

*Pre- or corequisite:* HBA 300  
*Fall, 2 credits*

### **BIO 232 Physiology Laboratory for Pre-Nursing Students (REVISED)**

Laboratory studies in mammalian physiology. May not be taken for credit after BIO 335 or 339.

*Prerequisites:* BIO 231; HBA 300  
*Spring, 2 credits*

### **BIO 302 Computers for Biologists (REVISED)**

Fundamentals of programming, concentrating on the C language and MS-DOS microcomputers. Introduction to assembly language stressing understanding of C constructs. Students gain experience in research applications by developing a program relevant to their field of interest.

### **BIO 303 Writing in the Biological Sciences (NEW)**

The process of writing within the biological sciences, practiced as a process of thought, explanation, analysis, and persuasion.

*Prerequisite:* At least 14 credits of biological sciences major courses  
*Fall, 1 credit*

**BIO 315 Microbiology (NEW)**

The organization structure, energetics, and reproduction of microorganisms. Interactions of bacteria and viruses will be discussed.

*Prerequisites:* BIO 151, 152; CHE 322  
Fall, 3 credits

**BIO 341 Aquatic Organisms (REVISED)**

Only the title has been changed.

**BIO 347 Botany and Biotechnology (REVISED)**

Only the title has been changed.

**BIO 355 Computer Programming and Modelling Techniques in Biology (REVISED)**

The computer language to be used in this course has been changed to Pascal.

**BIO 359 Animal Behavior (REVISED)**

This course is now crosslisted with PSY 343.

*Prerequisites:* BIO 101 or 151; PSY 103 or 104

**BIO 379 Developmental Neurobiology (REVISED)**

*Prerequisite:* BIO 230 or PSY 241

**BIO 380 Entomology (NEW)**

A survey of the anatomy, development, classification, biogeography, physiology, ecology, and evolution of the insects. The laboratory will stress a knowledge of insect diversity and morphology. Two hours of lecture and one three-hour laboratory per week.

*Prerequisites:* BIO 151, 152  
Fall, alternate years, 3 credits (not offered in 1988-89)

**Special Topics for Spring 1987****BIO 403 Seminars in Biology: Intertidal Biology**

Lectures and student presentations on the biology of intertidal organisms and their interactions in communities.

*Prerequisite:* BIO 341 or 343 or 353

**Chemistry**

*Changes in expected semester of course offerings: CHE 347 will not be offered this spring. CHE 355 has been deleted from the curriculum.*

*The following major electives to be offered in the spring are suitable for the B.S. elective requirement: CHE 344, 376, 502, 503, 528 (graduate courses require permission)*

**CHE 111 Elementary Chemistry I (REVISED)**

An introduction to the concepts of chemical composition, structure, and reactions, illustrated with examples from the life sciences. Appropriate for students preparing for admission to nursing and some other undergraduate health professions programs, liberal arts students, and those lacking high school preparation for CHE 131. Not open to students who have completed high school chemistry, except by permission, nor to students who have completed any college chemistry course.

**CHE 112 Elementary Chemistry II (REVISED)**

A terminal course in fundamental organic and biological chemistry, appropriate for students preparing for admission to nursing and some other undergraduate health professions.

**CHE 344 Spectroscopy of Organic Compounds (NEW)**

Modern spectroscopic methods applied to organic compounds. Structural effects on spectroscopic properties are surveyed with dual emphasis on fundamental aspects and problem solving. The student learns how spectroscopic methods are used both to solve complex structural problems and to investigate bonding features in organic molecules.

*Prerequisite:* CHE 322 or 332  
Spring, 3 credits

**CHE 345 Structure and Reactivity in Organic Chemistry (REVISED)**

Electronic and stereochemical theories relating to organic structure and reactions. Topics such as bonding, strain, aromaticity, MO theory, molecular rearrangements, pericyclic reactions, and photochemistry will be covered.

**CHE 350 Research Frontiers in Physical Chemistry (NEW)**

Selected topics of active research interest introduced at the advanced undergraduate level and developed to the level of the current research literature. The topics will vary from year to year and will be taken from areas such as spectroscopy, molecular kinetics and dynamics, polymer and biophysical chemistry, solid state and surface chemistry, and nuclear chemistry, and may include theoretical developments of interest to chemists. May be repeated as the topic varies.

*Prerequisites:* CHE 302; MAT 306  
Fall or spring, 3 credits

**CHE 351 Quantum Chemistry (NEW)**

Concepts of quantum theory, Schrodinger wave mechanics, and related mathematical techniques illustrated by application to systems of chemical bonding, spectroscopy, molecular structure, and molecular collision phenomena.

*Prerequisites:* CHE 302; MAT 306  
Fall, 3 credits

**CHE 353 Chemical Thermodynamics (NEW)**

A rigorous development of thermodynamics and its application to systems of interest to chemists, including electrochemical cells, gases, polymers, and homogeneous and heterogeneous equilibrium. An introduction to statistical mechanics is included.

*Prerequisites:* CHE 302; MAT 306  
Fall, 3 credits

**Child and Family Studies**

*Four courses have been added to the list of related courses acceptable for the Child and Family Studies minor: SSI 210 Images and Realities of Childhood; SSI 308 Battered Women, Endangered Children; SSI 320 The Special Child, and SOC 384 Sociology of the Life Course.*

The designator for the minor has been changed to CFS.

**Classics**

*Changes in expected semester of course offerings: CLS 120 and 311 will not be offered in Spring 1987.*

**Comparative Literature**

*A brochure with extended descriptions of Comparative Literature, Classics, Humanities, and Judaic Studies courses will be available in Library E-4309, starting November 14.*

*Changes in expected semester of course offerings: CLT 108 and 120 will not be offered in Spring 1987. CLT 202 has been deleted from the curriculum.*

## Special Topics for Spring 1987

### CLT 331 Literary Genres: Poetry: The Poetry of Allusion

An exploration of allusive poetry, a concept discussed by T.S. Eliot in his *Selected Essays*: "The poet must become more and more comprehensive, more *allusive*, more indirect, in order to force, to dislocate if necessary, language into his meaning." Some major practitioners of allusive poetry, such as Eliot, Pound, Auden, Ekelöf, Tranströmer, and others, will be studied. (L. Sjöberg)

### CLT 363 Literature and the Arts: The Beginnings of Romanticism in Music, Literature, and Art

The storm and stress movement, international New-Classicism, and the early romantic style. The course will use exemplary works of Haydn, Mozart, early Beethoven, Gluck; Schiller, Coleridge, Wordsworth, Blake; Chateaubriand, Gerleget, Novalis, Goethe; David, Gericault; Friedrich; Fichte, Schelling. (Charles Rosen)

## Earth and Space Sciences

Changes in expected semester of course offerings: GEO 103 and 307 and ATM 343 and 345 will not be offered in Spring 1987; but the fall courses GEO 102, 303, and 312 and AST 248 will be offered. GEO 321, 331, and 363 have been deleted from the curriculum.

All ESS courses have been deleted. The Teaching Practicum has been divided into GEO 475 Teaching Practicum—Geology and AST 475 Teaching Practicum—Astronomy. The teacher preparation courses have been replaced by SCI courses. See Science Teacher Preparation Program section.

### Revised Major Requirements: Geology

GEO 307 is no longer required for the major in geology under requirement A; it may be used as an elective under requirement B.

### AST 248 The Search for Life in the Universe (REVISED—formerly AST 108)

Prerequisite: Any Natural Science Category A course

### GEO 300 History of Geology (REVISED)

Prerequisite: GEO 102 or 109

### GEO 303 Stratigraphy (REVISED)

Prerequisites: GEO 306, 312

### GEO 306 Igneous Petrology (REVISED)

Principles of the description, classification, and interpretation of igneous rocks. The student will be introduced to the use of field and laboratory data for interpreting the origin and evolution of various rock types and to the use of the petrographic microscope. Two one-hour lectures and one three-hour laboratory session per week.

Prerequisite: GEO 301

Spring, 3 credits

### GEO 307 Metamorphic Petrology (REVISED)

Principles of the description, classification, and interpretation of metamorphic rocks. Study of hand specimens and thin sections; principles of determining conditions of metamorphism. Two one-hour lectures and one three-hour laboratory session per week.

Prerequisite: GEO 306

Fall or spring, 3 credits

### GEO 308 The Earth in the Nuclear Age (NEW)

Exploration of some complex societal issues concerning nuclear power and nuclear arms that involve fundamental aspects of earth sciences. Impact of research in geological, geophysical, geochemical, and atmospheric sciences on nuclear power plant siting, nuclear test ban verification, nuclear waste disposal, and nuclear winter theories. Throughout the course, the empirical nature of scientific research will be stressed.

Prerequisite: GEO 102

Spring, 3 credits

### GEO 321 Mineral Deposits (REVISED)

Prerequisites: GEO 306, 312; CHE 301 or GEO 323; permission of instructor

### GEO 363 Sedimentation and Sedimentary Rocks (REVISED)

Prerequisite: GEO 306

## Economics

Changes in expected semester of course offerings: ECO 237, 318, 386, and 395 will not be offered in Spring 1987; ECO 335, 344, 352, and 379 will not be offered this year. ECO 105 has been deleted from the curriculum.\*

### ECO 100 Current Economic Issues (NEW)

An examination of major economic issues using the basic tools of economic analysis. Particular emphasis is placed on understanding the influence of international trade, exchange rates, government monetary and fiscal policy, deficits, interest rates, and the financial markets on the economic environment of individuals and businesses.

Fall and spring, 3 credits

### ECO 251 Intermediate Microeconomic Theory (REVISED)

A grade of C or higher is necessary in the calculus listed among the prerequisites.

### ECO 252 Intermediate Macroeconomic Theory (REVISED)

A grade of C or higher is necessary in the calculus listed among the prerequisites.

### ECO 310 Basic Computational Methods in Economics (NEW—offered in 1985-86 as ECO 402, Sec. 2)

A first course in the computational and graphical techniques for finding numerical solutions to the economic models presented in undergraduate courses. Includes the foundations of programming (using BASIC), data management, Newton's method for solving non-linear equations, exploring and fitting functions graphically, and finding maxima of functions.

Pre- or corequisite: ECO 251

Fall and spring, 4 credits

### ECO 322 Applied Econometrics\*

Application of econometric methods to real problems, using panel data sets and problems involving qualitative dependent variables.

Prerequisites: ECO 251, 252, 321

Fall or spring, 3 credits

### ECO 339 China's Economy since 1949 (NEW)

Economic development policies in the People's Republic of China from the revolution in 1949 to the present. Topics include agricultural and industrial organization, population policies, sectoral balances, foreign trade, and attempts to reconcile planning with market forces. A substantial term paper is required.

Prerequisite: ECO 251

Spring, 3 credits

### **ECO 368 Modern Portfolio Theory (NEW)**

The economics of uncertainty and modern portfolio theory. Topics will include expected utility theory, measurement of risk, the capital asset pricing model, and efficient markets. Students will maintain a portfolio of common stocks and evaluate its performance.

*Prerequisites:* ECO 251, 320  
*Corequisite:* ECO 321  
*Spring, 3 credits*

### **ECO 370 Application and Theory of Financial Markets (NEW—offered as ECO 408 in Fall 1985)**

The study of financial markets. The course reviews net present value as an investment criterion. Capital asset pricing models and market efficiency are covered briefly. Pricing of stocks, bonds, options, and futures, together with hedging strategies using options and futures, are covered in more detail.

*Prerequisites:* ECO 251, 320  
*Fall, 3 credits*

### **Special Topics for Spring 1987**

#### **ECO 408 Topics in Applied Economics**

##### **Sec. 1: The International Dollar and the U.S. Debt Crisis**

An institutional study of the international dollar beginning with the Bretton Woods Agreement—how it worked, why it collapsed; the Eurodollar market; the dollar crisis of the 1970s; the Third World debt crisis and the current U.S. balance of payments crisis.

*Prerequisites:* ECO 251, 252  
*(E. Fuller)*

##### **Sec. 2: Economics of the Elderly**

An analysis of the financial status of the elderly in the U.S., with particular emphasis on the impact of the Social Security System. Topics covered include retirement savings, consumption, health care, and financial transfers between generations.

*Prerequisite:* ECO 251  
*(M. Hurd)*

## **English**

*A brochure with extended descriptions of Spring 1987 courses offered by the Department of English is available in Humanities 245. Extended descriptions of the various sections of EGL 191, 192, 193, and 202 are also available in the Writing Programs Office, Humanities 196.*

*Changes in expected semester of course offerings: EGL 260, 262, 304, and 344 will not be offered in Spring 1987. EGC 103 and 104, and EGL 272 have been deleted from the curriculum.*

*Students taking EGL 487, 488, and 496 must have proposals for these courses approved before the last week of the fall semester. Proposal forms are available in Humanities 245.*

### **Revised Major Requirements**

EGL 338 has been added to the list of courses satisfying the Major Authors requirement and EGL 376, to the Interdisciplinary or Genre course list.

### **EGC 100 Introduction to the Writing Process (REVISED)**

*Prerequisite:* Placement by English Department examination or by ESL instructor

### **EGC 101 Writing Workshop (REVISED)**

Intensive practice in writing frequent short papers. Emphasis on strategies for drafting and revising. Students must earn a C or higher in this course to satisfy the University Writing Requirement. A-through-C/Unsatisfactory grading only.

### **EGC 102 Writing Workshop II (REVISED)**

A continuation of EGC 101. Emphasis on the development of expository writing skills, research skills, and documentation. Frequent short research papers and one longer one.

### **EGL 192 Introduction to Fiction (REVISED)**

An analysis of fictional prose in terms of a section's theme. A goal of each class is to interpret various pieces of literature in relation to a political or historical view, or a particular literary technique. (Not for English major credit.)

### **EGL 202 Advanced Writing Workshops (REVISED)**

Intensive work on advanced problems in writing. Different sections will have different emphases (e.g., argument, research methods, a theme such as technical writing). Consult the Writing Programs Office for descriptions of current offerings.

### **EGL 276 Women and Literature (REVISED)**

An examination of works written by or about women that studies the development and conception of women in drama, poetry, and fiction. The course focuses on literature seen in relation to women's sociocultural and historical position. May be repeated with permission of the Director of Undergraduate Studies as the subject matter varies.

### **EGL 376 The Literature of Imperialism (NEW)**

A course in the history and culture of European imperialism as it is evidenced primarily in the literary texts produced both by Europeans and by the indigenous populations which they colonized. The course will present the colonial/imperial experience from three different perspectives: the imperial ideology; the liberal reaction by colonizers to the injustice of imperialism; the response of colonial and formerly colonial peoples to their experience as the colonized.

*Prerequisite:* A literature course at the 200 level or higher.  
*Fall or spring, 3 credits*

### **Special Topics for Spring 1987**

Sections of EGL 191, 192, 193, and 202 will have different emphases. See brochure.

### **EGL 199 Freshman Honors Seminar in English: Classical Tragedy**

*(T. Kranidas)*

### **EGL 348 Major Writers of the Romantic Period in England: Blake**

*(D. Erdman)*

### **EGL 352 Major Writers of Modern British and American Literature: The Whitman Tradition**

*(W. Harris)*

### **EGL 353 Major Writers of Contemporary British and American Literature: Faulkner, Walker, and Welty**

*(J. Ludwig)*

### **EGL 362 Poetry in English: "Voice" and Audience in Post-Modern Poetry**

*(S. Fontaine)*

### **EGL 366 Fiction in English Sec. 1: The Short Story**

*(D. Fortuna)*

### **Sec. 2: New Novels by Young Writers**

*(R. Elman)*

### **EGL 372 Literature in English and Its Relation to Other Literatures Sec. 1: Psyches of Man and God in the Bible**

*(J. Stampfer)*

### **Sec. 2: Modern Literature**

*(S. Sears)*

### **EGL 374 Literature in English and Its Relations to Other Disciplines: Christians and Jews**

*(S. Spector)*

### **EGL 385 Advanced Creative Writing: Poetry**

*(J. Jordan)*

### **EGL 490 English Seminar: 20th-Century Literature**

Honors course.  
*(S. Olster)*



## Federated Learning Communities (FLC)

Flyers describing current FLC programs in detail are available in the program office, Educational Communications Center 237.

### Issues in Management and Business (IMB)

The 1986-87 FLC program identifies and studies significant issues related to the world of management and business. One of the primary objectives is to enable students to understand the broad social, cultural, political, and ethical contexts within which management and business activity takes place. Successful completion of the two-semester program will earn the FLC minor in management and business. The courses selected for federation are as follows:

#### Fall Semester

PHI 372 Ethical Inquiry  
PAM 345 Special Topics in Management  
POL 321 Americal Federalism and Intergovernmental Relations  
IMB 301 Program Seminar

#### Spring Semester

PAM 345 Special Topics in Management  
SOC 381 Sociology of Complex Organizations  
A third course selected from a list of courses prepared by FLC  
IMB 302 Program Seminar

The Master Learner for this program is Professor Michael Simon, Department of Philosophy.

### IMB 301, 302 Program Seminar: Issues in Management and Business (NEW)

Each seminar will integrate the material of its three corequisite courses. The agenda of the seminar will be determined by the problems, difficulties, and interests of the students. Discussions and frequent written and oral reports will focus on assisting the students in learning how to learn; deepening understanding of the concerns and ideas of the corequisite courses; comparing, contrasting, and

synthesizing the material of these courses; developing confidence to think and write independently.

Corequisites to IMB 301: PAM 345, PHI 372, POL 321

Corequisites to IMB 302: PAM 345, SOC 381, another approved course  
Fall (301) and Spring (302), 3 credits each semester

## French and Italian

Changes in expected semester of course offerings: FRN 113, 301, 302, 390 and ITL 320, 325, 390 will not be offered in Spring 1987. ITL 324 has been deleted from the curriculum.

### Revised Major Requirements

All upper-division courses offered for the major in French and Italian must be passed with a grade of C or higher, and all courses must be taken for a letter grade (except that P is acceptable for courses completed through Challenge credit).

Transfer students who wish to graduate with a major in French or Italian must take at least 12 credits of French or Italian in residence at Stony Brook.

Concentration A in Italian now requires ITL 322 Advanced Conversation and Composition II. Prior permission of the department is necessary to transfer credit for ITL 321 and 322.

### Revised Minor Requirements

All upper-division courses intended to fulfill minor requirements in French or Italian must be passed with a grade of C or higher, and all courses must be taken for a letter grade (except that P is acceptable for courses completed through Challenge credit). Transfer students who wish to graduate with a minor in French or Italian must take at least six credits of upper-division French or Italian courses in residence at Stony Brook.

### FRN 199 Modern France (in English) (NEW)

A survey of contemporary France and its political, social, and economic structure, as well as the study of cultural life and institutions. Special attention will be given to other French-speaking countries and their relations to France. Cannot be used to satisfy the foreign language proficiency requirement.

Fall or Spring, 3 credits

### FRN 300 French Poetry (NEW)

The development of French poetry from the Middle Ages to the 20th century, including poetry from francophone countries.

Prerequisite: FRN 222 or 295 or 296  
Alternate years, 3 credits (not offered in 1987-88)

### FRN 475 Undergraduate Teaching Practicum in French (REVISED)

Not for major or minor credit.

Prerequisites: Fluency in French; permission of instructor and department

### ITL 199 Modern Italy (in English) (NEW)

A survey of contemporary Italy and its political, social, and economic structure, as well as the study of cultural life and institutions with comparisons to American models and standards. Cannot be used to satisfy the foreign language proficiency requirement.  
Fall or Spring, 3 credits

### ITL 351 Studies in 17th- and 18th-Century Italian Literature (REVISED)

The time span for topics under this rubric has been expanded to the 17th century.

### ITL 393 Free Seminar (REVISED)

May be repeated as the topic varies.

### ITL 475 Undergraduate Teaching Practicum in Italian (REVISED)

Not for major or minor credit.

Prerequisites: Fluency in Italian; permission of instructor and department

## Special Topics for Spring 1987

### FRN 381 French Literature in Translation: Camus

A study of the evolution of Camus' thought through such works as *The Stranger*, *The Plague*, *The Myth of Sisyphus*, *The Rebel*, and *The Fall*. (A. Rizzuto)

### FRN 393 Free Seminar: French Women Writers of the 20th Century

Intensive reading of fiction and autobiography by Simone de Beauvoir, Colette, Nathalie Sarraute, Marguerite Duras, and Marie Cardinal. Their representation of the experience of childhood and adolescence, mother-daughter ties, and the struggle for independence will form the central issues for discussion and written work. (H. Allentuch)

### ITL 351 Studies in 17th- and 18th-Century Italian Literature

Readings and discussion of selections from major works of poetry, prose, and theatre from the Baroque period to the

Age of Enlightenment. Attention is also given to librettos and to the development of Italian opera. (A. Forti-Lewis)

### **ITL 373 Studies in Contemporary Literature: Italian Poetry Today**

The development of the major themes and structure of Italian contemporary poetry in the last twenty years from the latest work of Eugenio Montale. Giuseppe Ungaretti, and Pier Paolo Pasolini, to the most recent tendencies of both the neo-avant garde movement of the 1960s, and those of the younger generation of the 1970s and 1980s (e.g., visual poetry, body poetry, and neo-romantic and neo-surrealist poetry). (L. Fontanella)

Note: Italian majors may also be interested in HIS 403. See History Special Topics.

## **Germanic and Slavic Languages and Literatures**

A brochure with extended descriptions of Germanic and Slavic courses will be available in Library N-3009 starting November 12.

Changes in expected semester of course offerings: GER 141, 231, PSH 112, RUS 110, 339, SWE 112, 192, EEL 394, and YDH 112, 192 will not be offered in Spring 1987. GER 195, SWE 320, and EEL 120 have been deleted from the curriculum.

### **GER 200 Landeskunde (REVISED)**

The cultural and physical geography of Central Europe with emphasis on the German-speaking areas. Particular emphasis will be placed on the definition of cultural units and their reflections in regionalism and particularism.

Pre- or corequisite: GER 192

## **Hispanic Languages and Literature**

A brochure with extended descriptions of Spring 1987 Spanish courses is available in Library N-3017.

Changes in expected semester of course offerings: SPN 461 will not

be offered in Spring 1987. SPN 302 has been deleted from the curriculum.

### **Revised Major Requirements**

SPN 301 is now required for the major; and students must choose three courses from among SPN 396, 397, 398, and 462 or 463.

### **POR 191 Intermediate Portuguese I (NEW)**

An intermediate course in Portuguese featuring a review of grammar and intensification of reading, writing, and speaking skills.

Prerequisites: POR 112 or 113  
Fall, 3 credits

### **POR 192 Intermediate Portuguese II (NEW)**

An intermediate course in Portuguese intended to develop competence in reading, writing, and speaking Portuguese through the study of grammar and the interpretation of selected literary texts.

Prerequisite: POR 191  
Spring, 3 credits

### **SPN 199 Modern Spain (in English) (NEW)**

An examination of major cultural and social developments in Spain during the 20th century, with special emphasis on the Spanish Civil War, the Franco era, and the transition to democracy. Presented in English, the course seeks to enhance understanding of Spain through analysis of such issues as national character, change and continuity, and regional diversity. May not be used to satisfy the foreign language proficiency requirement.  
Spring, 3 credits

### **SPN 463 Contrastive Spanish-English Grammar (REVISED)**

In-depth investigation of particular areas of Spanish and English grammar for purposes of language teaching.

### **SPN 465 Topics in Hispanic Linguistics (NEW)**

Investigation of selected topics of Hispanic linguistics. The topic, which will be announced before each semester, may be drawn from such subjects as the development of Spanish for teachers, or analysis of meaning in the Spanish language.

Prerequisites: SPN 301; permission of instructor  
Schedule to be announced, 3 credits

### **SPN 475 Undergraduate Teaching Practicum in Spanish (REVISED)**

An opportunity for selected upper-division students to collaborate with the faculty in teaching a language class. Responsibilities may include preparing material for practice sessions, initial correction of homework and tests, and helping students with problems. Application for approval must be submitted to the Director of Undergraduate Studies the previous

semester. Satisfactory/Unsatisfactory grading only.

### **Special Topics for Spring 1987**

#### **SPN 431 Topics in 18th- and 19th-Century Peninsular Literature and Culture: The Evolution of 19th-Century Spanish Fiction**

Special emphasis on the major currents (naturalism, realism) and novelists (Valera, Pereda, Pérez Galdós, Pardo Bazán, Clarín). (L. Deutsch)

#### **SPN 442 Topics in Spanish-American Literature and Culture from 1880 to the Present: The Quest for Cultural Decolonization and National Identity**

An examination of the cultural aspects of decolonization. The principal questions to be addressed in all works are: "How does a people become itself after centuries of colonization? How does a people deal with the problems of alienation, reification, and depersonalization that were part of the colonial experience?" (M.L. Nunes)

## **History**

A brochure with extended descriptions of Spring 1987 History courses is available in Social and Behavioral Sciences S-301.

Changes in expected semester of course offerings: HIS 101, 102, 201, 202, 216, 241, 249, 301, 316, 317, 322, 337, 370, 386, and 396 will not be offered in Spring 1987. See the Class Schedule for the many fall and 1985-86 courses being offered this spring instead. HIS 266 and 331 have been deleted from the curriculum.

### **HIS 133 The Medieval Imagination (NEW)**

An introductory course in the civilization of medieval Europe and its immediate neighbors. The main emphasis is upon culture and society as depicted in creative literature: women and marriage, contemporary view of social structure, the impact of Islam, popular science and religion, travel, the role of "outsiders," and marginal people and groups.

Fall, alternate years, 3 credits (not offered in 1987-88)

**HIS 326 History of Popular Culture (NEW)**

The development of popular culture in Europe and the United States. The course will examine different aspects and genres of popular mentality beginning with peasant cultures in the 16th century. Other aspects include artisanal culture in the 18th century in Europe and America, commercial cultures in 19th-century England and America, and the rise of mass media culture in the 20th century.

*Prerequisite:* One course in history, preferably in the area of U.S. history  
*Fall, alternate years, 3 credits (not offered in 1987-88)*

**HIS 333 Women in U.S. History (NEW)**

Crosslisted with WNS 333. See Women's Studies section.

**HIS 336 Women, Work, and Family in Modern European History (NEW)**

Crosslisted with WNS 334. See Women's Studies section.

**HIS 352 The Social History of Science (REVISED)**

*Prerequisite:* HIS 102 or 136 or 292 or SOC 103 or 105 or 106

**HIS 382 Politics and Political Change in Latin America (REVISED—formerly HIS 332)**

Only the number has been changed.

**HIS 383 Cultural and Intellectual History of Latin America to 1825 (NEW)**

The cultural and intellectual history of Latin America during the Colonial Period. Major reports on the discovery and exploration, the spiritual conquest, universities, baroque times, scientific missions and the enlightenment, colonial newspapers, and the movement of independence. May not be taken for credit in addition to the discontinued HIS 331.

*Prerequisite:* One history course, preferably in the area of Latin American history  
*Fall, 3 credits*

**HIS 384 Cultural and Intellectual History of Latin America from 1825 to Present (NEW)**

The cultural and intellectual history of Latin America during the 19th and 20th centuries. Romanticism, liberalism, positivism, Arielism, university reform, Marxism in Latin America, liberation theology, major current trends. May not be taken in addition to the discontinued HIS 331.

*Prerequisite:* One history course, preferably in the area of Latin American history  
*Spring, 3 credits*

**HIS 385 Colonial Brazil and the Portuguese Empire (NEW)**

The age of Portuguese expansionism, the conquest and settlement of Brazil, the rise of slavery and plantation agriculture. Brazil's transition from

colony to nation.

*Prerequisite:* One course in history, preferably in the area of Latin American history

*Fall, alternate years, 3 credits (not offered in 1986-87)*

**HIS 386 Modern Brazil (REVISED—formerly HIS 334)**

Only the number has been changed.

**HIS 387 Women, Development, and Revolution in Latin America (REVISED—formerly HIS 335)**

*Prerequisite:* One course in history, preferably Latin American history, or women's studies

**HIS 447 Independent Readings in History (REVISED)**

It is now permissible to enroll in more than one section in a semester.

**Special Topics for Spring 1987**

**HIS 402 Colloquium in European History: Social Movements in Contemporary Europe**

(H. Lebovics)

**HIS 403 Colloquium in European History: Topics in Modern Italian History**

(C. Esposito)

**HIS 412 Colloquium in American History: A History of American Socialism**

(H. Cleland)

**HIS 441 Colloquium in World History: Historical Perspectives on Women's Health Care Issues**

(H. Lemay)

**Human Development**

The new minor in human development (LHD) is designed for the residents of Langmuir College who wish to add an academic dimension to their residence experience. The aim of the minor is to provide an integrated view of the human life course defined as infancy and childhood, youth and adolescence, and mid-life and aging.

**Requirements for the Minor in Human Development**

*Credits*

1. Six three-credit courses from the approved list (available from the Minor Coordinator), including:
    - a. at least one three-credit course in one phase of the life course and at least one other in another phase or one which provides an overview of the life course;
    - b. at least one three-credit course in each of the following divisions: Biological Sciences, Humanities and Fine Arts, Social and Behavioral Sciences.  
*Note:* Any one course may meet both the life course and divisional requirement of (a) and (b) at the same time.
    - c. any other three-credit courses to achieve a total of 18 credits. 18
  2. Three one-credit courses in human development.
    - a. LHD 301 to be taken during the first semester of this program;
    - b. LHD 302 to be taken during the second through fourth semesters of this program;
    - c. LHD 401 to be taken during the final year of this program. 3
  3. One three-credit independent study course in either:
    - a. LHD 487 under the supervision of the Coordinator; or
    - b. an independent study course in any department approved by the Coordinator 3
- Total: 24

*Note:* No more than one three-credit course in the minor may be taken P/NC. At least twelve credits for the minor must be in upper-division courses.

**Declaration of the Minor**

Students must declare the human development minor no later than the middle of their third year, at which time they will consult with the Minor Coordinator, Prof. William Arens, and plan their course of study for fulfillment of the requirements.

### LHD 301 Introductory Seminar in Human Development (NEW)

An interdisciplinary introduction to human development through the consideration and discussion of major works on the human life course. An emphasis will be placed on reading, integration of material, and critical discussion in a seminar format. Prerequisites: Residence in Langmuir College: human development minor Fall and spring, 1 credit

### LHD 302 Colloquium in Human Development (NEW)

A series of lectures by Stony Brook and visiting scholars on various aspects of human development pertaining to the life course. Students will be expected to participate in subsequent discussions. Content will vary from semester to semester. Prerequisites: LHD 301: residence in Langmuir College: human development minor Fall and spring, 1 credit

### LHD 401 Advanced Seminar in Human Development (NEW)

An interdisciplinary seminar in human development through consideration of topics and issues raised by any of the disciplines concerned with the human life course. The content will vary in relation to the interests and experience of seminar participants. Prerequisites: LHD 301, 302: residence in Langmuir College: human development minor Fall and spring, 1 credit

### LHD 487 Independent Study in Human Development (NEW)

The completion of an individual project by one or a group of students on human development and the life course. Projects may include library, laboratory, or field research, or literary or artistic endeavor. Each project must result in an individual or group production or written report and be approved in advance by the minor coordinator. May be repeated. Prerequisites: LHD 301, 302: residence in Langmuir College: human development minor Pre- or corequisite: LHD 401 Fall and spring, 3 credits

### Special Topics for Spring 1987

**HUM 291, Sec. 1: Blind Ambition**  
See Unaffiliated Courses section for description.

## Humanities

Changes in expected semester of course offerings: HUM 122 will not be offered in Spring 1987. The fall course, HUM 176 will be offered in the spring.

## Interdivisional Humanities and Social Science

*Under the new University Core Curriculum requirements, which apply only to students matriculating as freshmen in 1986-87, the following course satisfies part of the humanities and fine arts and the social and behavioral sciences requirements. Students must take both semesters of this course if they wish to count it toward distribution requirements.*

### COR 101, 102 Art, Literature, and Philosophy in Historical Perspective (New—offered in 1985-86 as HUM 101, SBS 102)

An historical introduction to the art, literature, and philosophy of the West: cultural achievements are studied in relation to their historical conditions of emergence, and emphasis is given to the ways in which Western culture is influenced by and influences other cultures. Prerequisite to COR 102: COR 101 Fall (101) and spring (102), 3 credits each semester

## International Studies

*The interdisciplinary minor in international studies is open to residents of Keller College who wish to add an academic dimension to their residential experience. It provides an integrated view of institutions, ideas, historical traditions, and aspirations of peoples of other countries or regions.*

### Requirements for the Minor in International Studies

- |   |         |
|---|---------|
|   | Credits |
| 1. Students must select a world region for specialization from among the following: Western Europe, Eastern Europe (including the Soviet Union), Southern Europe, the Middle East, East Asia, South Asia, Africa, or Latin America. |         |

- |   |    |
|---|----|
| 2. ANT 102 Introduction to Cultural Anthropology or ANT 230 Peoples of the World  | 3  |
| 3. Fifteen credits selected from courses in the social and behavioral sciences and humanities and fine arts that relate to the world region chosen: |    |
| Three courses dealing with the region's history, sociology, economic or political institutions, or general culture                                  | 9  |
| One course dealing with the region's philosophic ideas, religious institutions, literature, painting, or music                                      | 3  |
| One course from any of the above topics   | 3  |
| 4. KIS 301 Introductory Seminar in International Studies  | 1  |
| 5. KIS 401 Advanced Seminar in International Studies  | 1  |
| 6. KIS 487 Independent Study or an independent study course in any department approved by the Coordinator:  | 3  |
| Total   | 24 |

### Notes:

- a. With the approval of the Coordinator up to 15 credits may be taken as part of the study abroad program.
- b. No more than one three-credit course in the minor may be taken P/NC. All other courses must be passed with a grade of C or higher.
- c. At least twelve credits for the minor must be in upper-division courses.
- d. Students are urged to spend at least one semester studying abroad. Upon returning, students are required to present a talk in one of the seminars or colloquia offered in the minor.

### Declaration of the Minor

Students must declare the international studies minor no later than the middle of their third year, at which time they will consult the coordinator, Professor David Hicks, and plan their course of study.

### **KIS 301 Introductory Seminar in International Studies (NEW)**

An introductory seminar dealing with both topical and regional issues on a global scale. Topics, which will be chosen on a cohesive series of themes, may focus on general subjects such as population problems, comparative political systems, Islam, and genocide or on regions such as Oceania, the Mediterranean world, and Latin America.

*Prerequisites:* Residence in Keller International College; sophomore standing; minor in international studies  
*Fall and spring, 1 credit*

### **KIS 302 Colloquium in International Studies (NEW)**

A colloquium on international studies, involving guest experts who will discuss particular world topics or regional specialties. Students will also contribute class discussions, oral presentations, and a substantial essay on themes drawn from various topics and regions.

*Prerequisites:* Residence in Keller International College; KIS 301  
*Spring, 1 credit*

### **KIS 401 Advanced Seminar in International Studies (NEW)**

An advanced seminar focusing on a particular topic or region of the world. Students will demonstrate a close familiarity with the region of their specialty and with the minor themes of significance to that region, as for example population control, industrialization, and political changes in China. They will also compare how such themes relate to the regional studies of other students in the seminar.

*Prerequisites:* Residence in Keller International College; upper-division standing; KIS 302  
*Fall and spring, 1 credit*

### **KIS 487 Independent Study in International Studies (NEW)**

Independent research projects on international studies by upper-division students in the minor under the supervision of an instructor.

*Prerequisites:* Residence in Keller International College; upper-division standing; KIS 401  
*Fall and spring, 3 credits*

## **Judaic Studies**

*Changes in expected semester of course offerings: JDH 298 and JDS 241 will not be offered in Spring 1987, but the fall course, JDH 320, will be offered.*

### **JDS 225 The Formation of the Judaic Heritage (REVISED)**

Only the title has been changed.

### **JDS 226 The Shaping of Modern Judaism (REVISED)**

Only the title has been changed.

### **JDH 261 Biblical Narrative (NEW)**

An examination of selected portions of the Bible, using literary and historical modes of interpretation. These texts will be analyzed from such perspectives as genre, narrative strategy, language, imagery, redaction skill, legend, chronicle, and epistle.

*Fall, 3 credits*

### **JDS 327 Women in Judaism (NEW)**

Crosslisted with WNS 320. See Women's Studies section for description.

### **JDH 366 The American Jewish Experience in Fiction (NEW)**

A study of the American Jewish Experience as it is revealed in the fiction of the Jewish writers in the period of 1917 through the present. The course will explore the long-range affect on the second, third, and fourth generations of immigration; acculturation; the impact of the depression; World War II and the Holocaust; the emergence of the State of Israel; suburbanization; the entry of the Jewish writer into the center of the literary world; and the new search for Jewish identity.

*Prerequisite:* One literature course at the 200 level or higher  
*Fall, alternate years, 3 credits (not offered in 1987-88)*

## **Linguistics**

*Changes in expected semester of course offerings: LIN 333, 376, and 421 will not be offered in Spring 1987. LIN 330 will be offered next spring.*

### **Revised Major Requirements**

LIN 201 *Phonetics* is now specifically required for the major, reducing the number of additional linguistics courses (requirement 2) to six.

### **LIN 111 Language: An Interdisciplinary Perspective (NEW)**

The study of language related to issues in other social science disciplines, such as the nature-nurture controversy, models of mental functioning, social class and cultural differences, the maintenance of ethnic identity and

assimilation, the reconstruction of proto-history, and the establishment of cultural influences.

*Fall, 3 credits*

### **LIN 311 Advanced Syntax (REVISED)**

A detailed consideration of recent developments in syntactic theory, applied to problems in English and other languages.

### **LIN 450 Supervised Student Teaching in English as a Second Language (CORRECTION)**

The credit listing in the *Bulletin* is wrong. This is a 12-credit course.

## **Special Topics for Spring 1987**

### **LAN 112 Selected Languages (Elementary) II**

**Sec. 1: Modern Greek**  
(E. Tourlakti)

**Sec. 2: Irish**  
(C. Sorochin)

**Sec. 3: Korean**  
(C. Oh)

### **LAN 192 Selected Languages (Intermediate) II**

**Sec. 1: Arabic**  
(Z. Mustafa)

**Sec. 2: Irish**  
(C. Sorochin)

### **LIN 425 Special Topics in Linguistics: Bilingualism**

*Prerequisites:* LIN 101 and one 200-level linguistics course  
(C. Von Schon)

### **LIN 431 Structure of an Uncommonly Taught Language: Kirundi**

(D. Finer)

## **Mathematics**

*MAP 106 and MAT 111 have been deleted from the curriculum.*

*MAP 102 will be designated "remedial" beginning in Fall 1987 (postponed from Fall 1986). This means that starting next fall, this course will count for registration credit in the semester it is taken but will not count toward graduation.*

*The Mathematics Placement Examination tests a student's knowledge of precalculus mathematics. This examination is one of the alternative prerequisites for MAT 125 and 131. It is also used for the Mathematics Proficiency Requirement and to*

provide advice about placement in MAP 101, 102, and MAT 120. The examination will be given during the first week of both the spring and fall semesters in the Mathematics Learning Center, Room S-235, Mathematics Building. Exact times will be posted. No appointment is necessary. Students should bring their SUSB I.D. and a No. 2 pencil. A student who cannot make these times should call Ms. Frank (6-3660 or 632-8245) for an appointment.

#### **MAT 112 Introductory Mathematics (REVISED)**

A course designed to acquaint the student with the nature of mathematics and what modern mathematicians do through consideration of specific topics chosen from logic, set theory, number theory, algebraic systems, limit concept, combinatorial topology, and geometric structures. This course may not be taken for credit after credit has been earned for any MAT course numbered above 300. Does not satisfy the mathematics proficiency requirement nor the quantitative literacy requirement.

#### **MAT 120 Preparation for Calculus (REVISED)**

An introduction to the skills and knowledge needed during the early stages of learning calculus, including work with polynomials, rational functions, and trigonometric functions. Intended for students who have not completed 12th year high school mathematics. May not be taken after any college calculus course has been passed with a grade of C or higher.

#### **MAT 306 Calculus IV: Multivariate Calculus (REVISED)**

*Prerequisites:* MAT 221 or 231 or 241 or AMS 210 and MAT 127 or 132.

#### **MAT 373 Analysis of Algorithms (REVISED)**

*Prerequisites:* MAT 221 or 231 or 241 or AMS 210; MAT 251 or CSE 110 or 111 or 114

## **Media Arts**

*The requirements for the minor have been revised. See the Minor Coordinator, Professor Carel Rowe, in the Department of Theatre Arts, for details.*

## **Music**

*Changes in expected semester of course offerings: MUS 239 and 394 will not be offered in 1986-87. MUS 434, offered this fall, will not be offered next spring. MUS 107, 304, and 431 have been deleted from the curriculum.*

*The prerequisite for any course in the music major program is the Ear Training Examination, which will be given on Saturday, December 6, 1986. Students must sign up in advance in the Department of Music office, Fine Arts 3304. Those who have not passed this placement test may not register for courses in the major program. The examination will be given again on January 31, 1987.*

*Instrumental instruction is, as a rule, only available to majors. Occasionally there are openings for lessons for non-majors. Students should contact the Music Department office (6-5672 or 632-7330) for appointments for auditions. Students who have not had an audition may not register for lessons.*

#### **MUS 120 Elementary Sight-Singing and Dictation (NEW)**

Beginning ear-training, including rhythmic and melodic dictation and sight-singing. Intended for students who are not prepared to enter MUS 121. May be repeated, but credit counts toward graduation only once. *Prerequisite:* MUS 119 or placement examination  
*Fall and spring, 3 credits*

#### **MUS 222 Modal Counterpoint (REVISED)**

An introduction to fundamental principles of musical structure through exercises in two-part species counterpoint in 16th-century style.

#### **MUS 261 University Chorus (REVISED)**

Study and performance of a repertory from the Middle Ages to the present. Grading is based on attendance. May be repeated.

#### **MUS 262 University Orchestra (REVISED)**

Study and performance of works from the repertory of the concert orchestra. Grading is based on attendance. May be repeated.  
*Fall and spring, 1 credit*

#### **MUS 263 University Wind Ensemble (REVISED)**

Study and performance of works for ensembles of woodwinds, brass, and

percussion in various combinations. Grading is based upon attendance. May be repeated.

**MUS 340 Western Music Before 1600 (REVISED—formerly MUS 241)**  
Only the number has been changed.

#### **MUS 363 Advanced Performance Study in Harpsichord (NEW)**

*Prerequisites:* Audition; permission of instructor  
*Fall and spring, 4 credits*

## **Philosophy**

*A brochure with extended descriptions of Spring 1987 Philosophy courses will be available in Old Physics 221, beginning November 12.*

*Changes in expected semester of course offerings: PHI 112, 249, and 268 will not be offered in Spring 1987. PHI 109, 110, 150, 239, 264, 285, 304, 308, 320, 324, 325, 342, 363, 366, 368, 374, 378, and 382 will not be offered in 1986-87. PHI 405 and 408 have been deleted from the curriculum.*

#### **PHI 111 Introduction to Eastern Philosophy: Classical Texts (REVISED)**

A study of main classical texts drawn from Hinduism, Buddhism (Indian, Chinese, Japanese), Taoism, Confucianism, and Neo-Confucianism (2500 B.C. to 300 B.C.) The emphasis will be on the structural and contextual background of these traditions and on relating them to what may be implicit in the American experience.

#### **PHI 112 Introduction to Eastern Philosophy: Interpretations (REVISED)**

Analysis of texts drawn from the Eastern tradition in an effort to recover the different modes of knowledge, language, identification, liberation, etc. and a study of different systems of Eastern philosophy that have dealt with these problems.

#### **PHI 223 Introduction to Metaphysics (REVISED)**

An introduction to philosophy through a study of the methods by which philosophers construct systematic accounts of knowledge and reality. Topics such as mind and matter, appearance and reality, freedom and determinism are discussed. The logical principles of system-formation as well as

the power of specific systems in resolving particular metaphysical problems are demonstrated.

**PHI 239 Japanese Philosophy and Aesthetics (REVISED)**

An examination of how modernization has affected the philosophical process in Japan focusing on such philosophical and literary authors as Fukuzawa, Natsume, Mori, Watsuji, Nishida and the Kyoto School, and more recent thinkers such as Tanizaki, Kawabata, and Mishima.

**PHI 264 Philosophy of the Arts (REVISED)**

A study of the arts focusing on the nature of the creative process, methods of interpretation, essential differences among the various arts, and the relation of performance to text.

**PHI 310 American Philosophy (REVISED)**

A study of selected major figures in the American tradition, e.g., Jefferson, Emerson, Edwards, James, Peirce, Dewey, and Whitehead. Includes consideration of such issues as the global relevance of the ethical issues engaged, the effects of the science of the day on the philosophical perspectives of these thinkers, and the philosophical problems addressed.

**PHI 323 Philosophy of Perception (REVISED)**

An inquiry into the philosophical and methodological problems pertaining to sensing, perceiving, and observing the world with special attention to vision. Various scientific solutions will be examined and a comparison will be made between psychological and physical methods for studying such phenomena as visual illusions and object recognition. Biological, psychophysical, neurophysiological and computational methods are among those considered.

*Prerequisites:* One philosophy course; PSY 103 or 104; one natural sciences Category A course

**PHI 332 Theories of Knowledge (REVISED)**

A study of a variety of conceptions of the structure and content of knowledge as found in classical and contemporary epistemologies. Fundamental methods and principles of philosophical inquiry are applied to questions about the ways in which concepts and theories are generated in the physical and social sciences and to questions about the nature of knowledge, of what is of value, of philosophy and knowledge in the arts.

**PHI 362 Scientists on Science (NEW)**

The study of the methods, goals, and achievements of science as well as the ethical and social commitments of

scientists through the writings of selected natural scientists from Galileo and Newton to Bohr, Einstein, and Feynman. Topics will include: the criteria for choice among theories, e.g., simplicity, beauty, usefulness; the use of mathematics and the role of experiment in science; objectivity; reality of the scientific image; scientific images of the person and of society; social and ethical values in science; religion and science.

*Prerequisites:* Two semesters of science; one philosophy course  
*Fall, 3 credits*

**PHI 363 Philosophy of the Social Sciences (REVISED)**

A study of the philosophical foundations of the social sciences, applying principles and methods of philosophical analysis to questions concerning the structures of social reality, the methodological and epistemological status of the social sciences, and the criteria for evidence and theory formation in the social sciences.

**PHI 364 Philosophy of Technology (REVISED)**

A systematic study of the interrelations of human beings and their social institutions with the surrounding world of nature and of technological artifacts. The impact of technological culture on human beliefs and perceptions of the world will be explored. The course will be interdisciplinary in scope, with readings from philosophy, anthropology, literature, history, environmental studies, and other areas where technology is of concern.

**PHI 372 Ethical Inquiry (REVISED)**

An intensive study of the methodological principles governing the formation of ethical theories and ethical judgments through an investigation of selected ethical problems.

**PHI 380 Literature and Philosophy (REVISED)**

An intensive study of the methods and principles of the philosophical analysis of literature and the relations between literature and philosophy. Primary texts are selected to demonstrate the precise nature of this relationship. Topics will vary from term to term.

**PHI 381 Aesthetics (REVISED)**

An intensive study of methods and principles specific to the philosophical analysis of art through selected classical texts in aesthetics (e.g., Plato's *Phaedrus*, Aristotle's *Poetics*, Kant's *Critique of Judgment*, or Nietzsche's *The Birth of Tragedy*). Discussions will focus on such problems as the ontology of the work of art, its epistemological significance, the relation between fact and fiction, criteria of interpretation, or the political import of art. Readings in the classical texts may be supplemented by selections from contemporary authors.

**PHI 415 The Philosophical Methodology of the Rig Veda (REVISED)**

The philosophical methodology of this great Indian text is interpreted within the text's own cultural context but also with a view to discerning a universal meaning that enriches Western understanding of such topics as knowledge, expression, and the need to structure experience, as well as the different forms and insights generated by such structures.

**Special Topics for Spring 1987**

**PHI 312 Topics in Contemporary European Thought: Contemporary French Thought**

(E. Casey)

**PHI 392 Individual Systems of the Great Philosophers: Nietzsche**

(D. Allison)

**PHI 393 Analysis of Philosophic Texts: Plato's Works**

(R. Sternfeld and H. Zyskind)

**Physical Education**

*Changes in expected semester of course offerings: PEC 117, 129, 135, 147, 154, and 171 will not be offered in Spring 1987.*

*Fees for Horsemanship courses are \$100 for PEC 180 and 181, and \$110 for PEC 282.*

**PEC 123 Lifeguard Training I (NEW)**

The first in a two-semester sequence leading to certification as an American Red Cross lifeguard. Course content includes elementary rescue techniques, boating and equipment rescues, and swimming rescues.

*Prerequisite:* PEC 122  
*Fall and spring, 1 credit*

**PEC 124 Lifeguard Training II (REVISED)**

*Prerequisite:* PEC 123

**PEC 134 Aerobic Dance II (NEW)**

Advanced body conditioning to enhance cardiovascular fitness. Energetic dance forms will be combined with warm-ups, muscle-strengthening exercises, and cool-down.

*Prerequisite:* PEC 133  
*Fall and spring, 1 credit*

**PEC 136 Basic Social Dance (REVISED)**

Only the title has been changed.

**PEC 137 Intermediate Social Dance**  
(NEW)

The presentation of additional steps to those dances taught in PEC 136, as well as the introduction of several new dances. Emphasis will be placed on the following: use of proper footwork, positioning, and styling; appreciation of music recognition; and interchanging certain steps from one style of dance to another.

*Prerequisite:* PEC 136  
*Spring, 1 credit*

**PEC 138 Beginning Jazz Dance**  
(NEW)

The fundamental techniques of jazz dance. The course develops body awareness through limbering and strengthening exercises, stretches, and body alignment. Students will learn body isolations, followed by center floor combination and movement phrases through space to jazz and related music.

*Fall and spring, 1 credit*

**PEC 139 Intermediate Jazz Dance**  
(NEW)

A technique class in jazz dance, which will focus on intermediate skills developing a synthesis of material. Students should have the fundamental knowledge of alignment, centering, placement, and basic terminology of jazz dance upon entering the class. The purpose of the class will be to combine this knowledge with more difficult technical demands in warm-up, floor combinations, and patterns across the floor. Elements of time (i.e., tempo and rhythmic structure) will also be investigated through movement.

*Prerequisite:* PEC 138  
*Fall and spring, 1 credit*

**PEC 145 Basic Physical Conditioning** (REVISED)

Only the title has been changed.

**PEC 146 Advanced Physical Conditioning** (NEW)

The maintenance and improvement of advanced levels of fitness. Instruction will be primarily devoted to improvement of muscular strength, flexibility, and endurance. Activities will include weight training with the Universal gym machine and free weights, stretching calisthenics, and other activities known for their physical conditioning benefits.

*Prerequisite:* PEC 145  
*Fall and spring, 1 credit*

**PEC 227, 228 Instructor of Lifeguard Training I, II** (NEW)

A two-course sequence designed to meet the American Red Cross certification in Instructor of Lifeguard Training. The course will include teaching methods for physical skills in advanced lifesaving and general rescue.

*Prerequisites to PEC 227:* PEC 124 and 223  
*Prerequisite to PEC 228:* PEC 227  
*Fall (227) and spring (228), 2 credits each semester*

**PEC 229 Fieldwork in Adapted Aquatics Instruction** (NEW)

Provides currently certified instructors of adapted aquatics with additional knowledge and practical experience in teaching swimming to disabled persons. The course may also be used by experienced instructors who wish to update or renew Red Cross certification in aquatics.

*Prerequisite:* PEC 226  
*Fall and spring, 1 credit*

**PEC 230 Dance Performance Techniques I** (NEW)

The development of dance technique as well as the theory and practice of creativity through choreography and movement improvisation. Specific performance tools (i.e., focus, energy, quality, and projection) will be discussed and applied.

*Prerequisite:* PEC 131  
*Spring, 2 credits*

**PEC 270 First Aid and Safety**  
(REVISED—formerly PEC 170)

This is now a 2-credit course.

**PEC 312, 313, 314 Athletic Training Practicum** (NEW)

Advanced practical experience under professional supervision in athletic training. The student is assigned to a sport-related activity (such as an intercollegiate sport or an intramural season) and assumes the responsibility for injury prevention, recognition, emergency care, and rehabilitation.

*Prerequisite:* PEC 311  
*Fall (312) and spring (313, 314), 2 credits each*

**PEC 475 Undergraduate Teaching Practicum in Physical Education I**  
(REVISED)

Selected undergraduates will assist faculty members teaching physical education activity classes. In addition to working as tutors during instructional periods, students will have regular conferences with a faculty supervisor. Student effort will concentrate on teaching motor skills, class safety, principles of sportsmanship, and basic coaching strategies. Satisfactory/Unsatisfactory grading only.

*Prerequisites:* Advanced skill level; permission of instructor and department  
*Fall and spring, 2 credits*

**PEC 476 Undergraduate Teaching Practicum in Physical Education II**  
(NEW)

The course continues on a more advanced level training in the methods of planning for physical education classes; administration of sports skills; testing and advanced coaching strategies. Students will be expected to assume greater responsibility in small unit coaching in team sports and concentrated individual coaching in

lifetime sports. Satisfactory/Unsatisfactory grading only.

*Prerequisites:* PEC 475; permission of instructor and department  
*Fall and spring, 2 credits*

## Physics

*Changes in expected semester of course offerings: PHY 110, 308, and 333 will not be offered in Spring 1987.*

**PHY 100 Introductory Physics**  
(REVISED)

A quantitative introduction to basic ideas of physics: space and time, static force and pressure, temperature, velocity, acceleration, force and motion, and energy. Strong emphasis is laid on the handling of numbers, treatment of experimental data, graphing, functions, vector algebra, the slope of a curve and the area underneath it. Three lectures, one recitation, and two laboratory hours per week.

**PHY 101 Classical Physics I**  
(REVISED)

An introductory survey of mechanics, wave motion, kinetic theory, and thermodynamics. Calculus is used concurrently with its development in MAT 131 or 141. Three lectures, one recitation, and two laboratory hours per week.

*Prerequisite:* PHY 100 with a grade of C- or higher or permission of department

*Corequisite:* MAT 131 or 141 or 126

*Note:* Some students who have sufficient preparation may be permitted to register for PHY 101 without having taken PHY 100, but only after they have received permission from Professor C.E. Swartz, Room B-104 in the Physics Building. (The College of Engineering and Applied Sciences will arrange permission for freshmen accepted directly into one of its majors.)

**PHY 102 Classical Physics II**  
(REVISED)

An introductory survey of electromagnetism, electric circuit theory, and optics. Calculus is used concurrently with its development in MAT 132 or 142. Three lectures, one recitation, and two laboratory hours per week.

*Prerequisite:* PHY 101  
*Corequisite:* MAT 132 or 142 or 127

**PHY 105, 106 Classical Physics I, II: Honors** (NEW)

A course intended for students with strong interests and abilities in science and mathematics. The topics covered are similar to those in PHY 101, 102, but are treated in more depth in a small class setting. Students will be able to transfer to PHY 101, 102 at any time



during the first half of each semester without penalty. Three class hours, one recitation hour, and one two-hour laboratory per week.

*Prerequisite to PHY 105:* Permission of department

*Coerequisite to PHY 105:* MAT 131 or 141 or 126

*Prerequisite to PHY 106:* PHY 105 or permission of department

*Corequisite to PHY 106:* MAT 132 or 142 or 127

*Fall (105) and spring (106), 4 credits each semester*

### **PHY 137, 138 The Nature and Use of Physical Science (REVISED)**

An introductory physics course using a minimal amount of mathematics to provide scientific background for the educated citizen in an increasingly technological society. . . (the rest of the description is the same as in the BULLETIN).

### **PHY 251 Modern Physics (REVISED)**

An introductory survey of modern physics, which completes a three-semester general physics sequence. The elements of the special theory of relativity are discussed. Wave-particle duality, the concept of wave function, and other fundamentals of the quantum theory are introduced and related to atomic structure, nuclear structure, and the physics of the solid state. In the laboratory students perform some of the pivotal experiments of the 20th century. Three lecture hours and one three-hour laboratory per week.

### **PHY 252 Optics and Waves (REVISED)**

A survey of geometrical and physical optics with associated laboratory. Ideas important to the development of contemporary physics are stressed. Three lecture hours and one three-hour laboratory per week.

*Prerequisite:* PHY 102 or 106

*Corequisite:* MAT 221 or 231 or 241

### **PHY 308 Quantum Physics (REVISED)**

*Prerequisites:* PHY 251, 301, and 303

### **Special Topics for Spring 1987**

#### **PHY 137, 138 The Nature and Use of Physical Science**

*Module 1:* The Physics of Vacuum.

*More than Nothing*

*Module 2:* Lasers and Unconventional Light Sources

*Module 3:* The Physics of Strategic Defense

*(P. Koch)*

## **Political Science**

*A brochure with extended descriptions of Spring 1987 courses is available in Social and Behavioral Sciences S-701.*

*Changes in expected semester of course offerings: POL 250, 326, 339, 350, 362, 370, and 373 will not be offered in Spring 1987. POL 240, 351, 353, and 368 have been deleted from the curriculum.*

*The new course POL 105 Honors Introduction to American Government, below, may be used as an alternative to POL 102 in satisfying major requirements and as the prerequisite for the following courses: POL 220, 221, 260, 261, 305, 320, 322, 323, 324, 326, 327, 348, 352, 366, and 369.*

*The new course POL 106 Statistical Methods in Political Science, below, replaces POL 104 in satisfying major requirements and as the prerequisite for the following courses: POL 317, 346, 348, 349, 360, and 375.*

*Political Science majors accepted for a New York State Assembly or Senate Internship in Albany (and who meet the rest of the prerequisites) should register for POL 489 and 490 rather than POL 488.*

### **Honors Program**

The new honors program is open to seniors majoring in political science who have maintained a G.P.A. of 3.5 in the major and 3.0 overall, and who have completed 21 credits in political science of which 12 credits have been in 300-level courses. Students should apply for the honors program before the beginning of their senior year. The student must find a member of the department faculty to act as sponsor. With the approval of the sponsor, the student must submit a written proposal for a major paper or research project to be completed during the senior year. Acceptance into the honors program depends on the approval of the proposal by the department.

During the senior year the student will enroll in POL 447 during the first semester and POL 487 during the second semester.

for a total of six credits. The student's major paper or research project must be completed no later than four weeks prior to the end of the second semester. It will be read and evaluated by a committee consisting of the student's sponsor, one other political science faculty member, and one faculty reader from an outside department in the Social and Behavioral Sciences Division.

If the honors program is completed with distinction and the student has achieved a 3.5 G.P.A. in all political science courses taken in the senior year, honors will be conferred.

### **POL 105 Honors Introduction to American Government (NEW)**

An enriched introduction to American government. Topics covered include political participation, public opinion, voting and elections, parties, interest groups, federalism, Congress, the Presidency, the bureaucracy, the judiciary, and public policy formation. This course requires more reading and more written work than does POL 102. May not be taken for credit in addition to POL 102.

*Prerequisite:* Permission of department. Priority given to Freshman Incentives Program students

*Fall or spring, 3 credits*

### **POL 106 Introduction to Statistical Methods in Political Science (NEW)**

An introduction to the methods and statistics used by political scientists in their analysis of the opinions and voting behavior of the average American voter. These basic skills are examined in the context of major substantive literature on electoral behavior and public opinion in the United States and other democracies. May not be taken for credit in addition to the discontinued POL 104.

*Spring, 3 credits*

### **POL 306 Politics of International Organization (NEW)**

Analysis of the structures and functions of international organizations with particular emphasis on the United Nations and regional organizations such as the League of Arab States, the Organization of American States and the Organization of African Unity. Examination of the roles of international organization in peace and security, economic and social development, human rights, and disarmament.

*Prerequisite:* POL 101 or 103

*Spring, 3 credits*

**POL 307 Politics in West Germany**  
(NEW)

An examination of the German Federal Republic, with special emphasis on the country's twisted path toward democracy; the international constraints of domestic politics; the role of political parties in government; coalition building; and the electoral process.  
*Prerequisite:* POL 103  
*Fall or spring, 3 credits*

**POL 321 American Federalism and Intergovernmental Regulations**  
(NEW)

A survey of the constitutional, institutional, and political interrelationships among federal, state, and local governments, covering grant-in-aid and interstate compacts.  
*Prerequisite:* POL 102 or 105  
*Fall or spring, 3 credits*

**POL 355 Ancient and Medieval Political Philosophy** (NEW)

Power, authority, social conflict, justice, and the goals of government as seen by such thinkers as Plato, Aristotle, Augustine, Thomas Aquinas, John of Salisbury, Marsilio of Padua, Machiavelli, Bodin, More, and Hooker. May not be taken for credit in addition to POL 250.  
*Prerequisites:* Two political science courses; upper-division standing  
*Fall, 3 credits*

**POL 356 Modern Political Philosophy** (NEW)

Power, authority, social conflict, justice, and the goals of government as seen by such thinkers as Hobbes, Locke, Rousseau, Hume, Burke, Hegel, Bentham, Mill, and Marx. May not be taken for credit in addition to POL 250 and 351.  
*Prerequisites:* Two political science courses; upper-division standing  
*Spring, 3 credits*

**POL 360 Political Decision Making**  
(NEW)

Exploration of economic models of political choice. Topics include decision theory, game theory, and social choice theory. Substantive problem areas include voting in small groups, candidate competition in mass elections, and the normative study of democratic decision making.  
*Prerequisites:* POL 102 or 104 or 105; one of the policy or behavior courses listed in *BULLETIN*, p. 167; satisfaction of mathematics proficiency requirement  
*Fall or spring, 3 credits*

**POL 365 Bureaucracy and Public Administration** (NEW)

Intended for students interested in a public service career. Topics include functions of bureaucracy in American society and in various cultural contexts; relationships between policy and administration; development of

organizational and bureaucratic theories, with emphasis on decision making, innovation, and responsibility.  
*Prerequisite:* POL 260  
*Spring, alternate years, 3 credits (not offered in 1986-87)*

**POL 372 Politics in the Third World**  
(NEW)

Analysis of problems and prospects of non-industrialized nations that are experiencing political and economic development. Particular attention will be paid to the impact of colonialism, social problems, economic modernization, and foreign policy orientations of the Third World nations.  
*Prerequisite:* POL 103  
*Spring, 3 credits*

**POL 373 Politics in South Asia**  
(NEW)

Analysis of the political systems of India, Pakistan, and other major nations of South Asia. The course will explore the relationships between political cultures, economic structures, party systems, and institutions for formulating public policy.  
*Prerequisite:* POL 103  
*Spring, 3 credits*

**POL 374 Health Politics and Policymaking** (NEW)

An intensive examination of the formulation and implementation of public policy in the United States through in-depth scrutiny of one policy area, health care. Topics include the politics of smoking, health care financing, restructuring federal programs, "procompetitive" reforms of the health care system, and aging.  
*Prerequisites:* POL 102 or 105; POL 260 recommended  
*Spring, 3 credits*

**POL 375 American Politics and Social Change** (NEW—offered as POL 402, Sec. 1 in Spring 1986)

An examination of the dynamics of social change from theoretical and historical perspectives. The course focuses on competing models of the American political process and questions how well they explain the origins of movements seeking social change and the state's responsiveness to political demands of disadvantaged groups.  
*Prerequisites:* POL 102 or 105 and POL 104  
*Fall, alternate years, 3 credits (not offered in 1987-88)*

## Psychology

*The Psychology Department publishes a brochure each semester that contains extended descriptions of special course offerings and other announcements of interest to undergraduates. These are available in the Psychology*

*Undergraduate Office (Psychology-B 116), which is open from 8:30 a.m. to 4:00 p.m. every day. The bulletin board outside Psychology-B 116 also contains up-to-date information about community service opportunities and research.*

*Changes in expected semester of course offerings: PSY 121, 309, and 351 will not be offered in Spring 1987. PSY 244, 305, 306, 322, and 344 will not be offered this year. PSY 317, 318, and 348 have been deleted from the curriculum.*

### Revised Major Requirement

1. A grade of C- or higher must be obtained in all courses (within and outside the Psychology Department) required for the major.
2. No transferred psychology course with a grade lower than C- will be accepted for credit toward the major.

**PSY 121 Library Skills for Psychological Research** (NEW)

An introduction to basic library skills and bibliographic resources for psychological research, using a self-paced workbook approach. Reference and other library materials of special interest to psychology students are covered. Such skills as the efficient use of card catalogs, bibliographies, and specialized indexes are also treated. No class sessions are held, but an opportunity for adequate contact between students and librarian is provided.  
*Prerequisite:* PSY 103 or 104  
*Fall or spring, 1 credit*

**PSY 321 Sensation-Perception**  
(REVISED)

An examination of both the basic mechanisms and the organizational processes of perception including the perception of color, depth, movement, pitch, loudness, speech, touch, temperature, and pain. Particular emphasis is given to visual and auditory perception.

**PSY 343 Comparative Psychology**  
(NEW)

A consideration of observed patterns and underlying mechanisms of animal and human behavior in ecological and evolutionary perspective. Crosslisted with BIO 359. May not be taken for credit in addition to the discontinued PSY 244.  
*Prerequisites:* PSY 103 or 104; BIO 101 or 151  
*Fall, 3 credits*

**PSY 350 Cognitive Psychology**  
(REVISED)

Prerequisites: PSY 103 or 104; PSY 201 or AMS 102

**PSY 351 Topics in Cognition (NEW)**

A study in depth of a selected topic from among (1) problem solving, (2) memory, (3) attention, and (4) imaginal processes. The topic will be announced and described in detail prior to advance registration. May be repeated once with permission of the instructor.

Prerequisite: PSY 350  
Spring, 3 credits

**PSY 353 Human Learning and Instruction (NEW)**

The application of basic principles of cognition to the acquisition of knowledge (concepts, cognitive strategies, verbal information), with an emphasis on instructional design. May not be taken for credit in addition to the discontinued PSY 319.

Prerequisite: PSY 350  
Fall, 3 credits

**PSY 370 The Psychology of Language (REVISED)**

Prerequisite: PSY 350

**PSY 377 Psychology of Women (NEW)**

Crosslisted with WNS 307. See Women's Studies section.

**Special Topics for Spring 1987**

**PSY 311 Advanced Developmental Psychology: Children's Learning**

Basic principles of learning surveyed from experimental research with children. Topics will include perceptual development, language development, memory development, conceptual development, and the development of academic skills (reading, writing, and arithmetic).

(H. Waters)

**PSY 390 Special Topics in Psychology: Cognition and Computers**

The application of basic principles of learning and information processing to the use of computers in elementary-age instruction. Topics include teaching programming skills (Logo), text processing skills, and the development of problem solving skills. The emphasis is on strategies for using computers as instructional tools, not on programming *per se*.

Prerequisite: PSY 211  
(H. Waters)

**PSY 492 Advanced Seminars in Psychology**

**Sec. 15: Early Education and Development**

Overview of early childhood development during the preschool years in relation to preschool education. Development of the child during this period with emphasis on social,

cognitive, psychomotor, and affective growth particularly as it occurs within the preschool environment. Three-hour practicum in University Preschool each week.

(H. Emmerich)

**Sec. 34: Psychology and the Nature of Human Nature**

This seminar will look at the interface between philosophy and psychology by addressing questions such as the following: Are humans by nature aggressive or altruistic? Are they able freely to choose among alternatives? Can the mind-brain debate be resolved? The focus will be on what psychologists have had to say about these and similar questions and how they have gone about trying to answer them.

(A. Ross)

**Sec. 45: Topics in Developmental Disabilities**

The behavior of retarded and autistic children will be reviewed. The focus will be on severe behavior problems such as aggression, self-injury, and communication disorder. Students will read key papers and report and discuss the issues involved.

(E. Carr)

## Religious Studies

*Changes in expected semester of course offerings: RLS 280 and 350 will not be offered in 1986-87. RLS 372 has been deleted from the curriculum.*

**RLS 110 The Bible: A Critical Introduction (NEW)**

An introduction to a modern critical understanding of the Bible, emphasizing both a study of the major Biblical books and the history of Biblical Israel and the early Christian community. The Biblical books will be studied in their original historical and religious context, apart from any ecclesiastical or theological tradition.

Fall, 3 credits

**RLS 122 Religion and Ethics Today (REVISED)**

An introduction to problems of method in the study of religion. This course analyzes the role of religion in the formation of moral, social, and political values, through a study in depth of selected contemporary areas of religious concern such as political economy, medicine, human rights, science and technology, war and peace.

**RLS 150 The Religious Dimension (REVISED)**

This is no longer an honors course; it is open to all students.

**RLS 310 Biblical Theology (NEW)**

Intensive introduction to the theological tendencies and implications of selected major texts from the Christian and Jewish scriptures. The course will survey historical and critical work on the selected texts, but will focus on the religious thinking reflected in them and their influence on later traditions. May be repeated once for credit as subject matter differs.

Prerequisites: RLS 230 or 270 or RLS 101 and one 200-level RLS course  
Fall, 3 credits

**RLS 321 Christian Classics (REVISED)**

Intensive study of a particular influential classic Christian text or genre, orthodox or heterodox, selected from early Christian, medieval, Reformation, or modern works. May be repeated as subject matter differs.

**RLS 345 Religion and Science (NEW)**

Origins and development of the conflict between religion and modern science, along with contemporary efforts to reconcile their methods and goals. Topics include the Galileo case, the Enlightenment critique of dogmatic religion, and anti-religious theories such as Darwinism, psychoanalysis, sociobiology, and artificial intelligence. Recent efforts toward a new intellectual synthesis of religion and science will be discussed, with attention to its East-West dimension.

Prerequisites: Upper-division standing; two semesters of science and one 200-level RLS or PHI course  
Fall or spring, 3 credits

## Science Teacher Preparation

The Center for Science, Mathematics, and Technology Education offers undergraduate science education courses satisfying New York State requirements for provisional certification as a secondary school teacher of biology, chemistry, earth science, and general science. Persons seeking additional information about these courses or the program are invited to call 632-7075 or visit the Center in Harriman Hall, Room 202.

**Requirements for the Science Teacher Preparation Program**

In addition to completing major requirements in biological sciences, chemistry, earth and space

sciences, geology, astronomy, atmospheric sciences, or physics. prospective science teachers are required to take the following courses in order to satisfy all requirements for State provisional certification:

	Credits
SCI 200 Introduction to Science Teaching	3
SCI 300 Science Instructional Strategies and Techniques	3
SCI 450 Supervised Teaching—Science	12
SCI 454 Student Teaching Seminar	3
HAS 303 Drug and Alcohol Education	1
SSI 350 Foundations of Education	.3
Total	25

### SCI 200 Introduction to Science Teaching (NEW)

Materials used in teaching secondary school sciences, approaches to teaching strategies, lesson planning, and student testing and evaluation. Observation of classroom activities in selected junior and senior high school science classrooms. Two hours of lecture and three hours of laboratory per week.

*Prerequisite:* BIO 151 or GEO 122 or CHE 131, depending on major  
*Fall, 3 credits*

### SCI 300 Science Instructional Strategies and Techniques (NEW)

One of the courses in a series for prospective secondary school teachers of science, including biology, chemistry, and earth science. It emphasizes instructional strategies and techniques necessary to create and implement inquiry and discovery activities within a science curriculum. The laboratories will include experiences in local public schools and campus laboratory courses. Curriculum development and independent science projects will be part of the course.

*Pre- or corequisite:* SCI 200  
*Spring, 3 credits*

### SCI 447 Readings in Science Education (NEW)

Tutorial studies on recent advances in scientific education.  
*Prerequisite:* Permission of Center for Science, Mathematics, and Technology Education  
*Fall and spring, 1 credit*

### SCI 450 Supervised Teaching—Science (NEW)

Extensive practice under selected cooperating teachers for prospective secondary school science teachers.

Student teachers work with one or two certified science teachers in one school each regular school day for the entire semester. Frequent consultations with University faculty members assist the student. Applications must be filed with the Center for Science, Mathematics, and Technology Education one semester prior to student teaching. Satisfactory/Unsatisfactory grading only.  
*Prerequisite:* Senior standing with 2.7 G.P.A. in major.

*Corequisite:* SCI 454  
*Fall and spring, 12 credits*

### SCI 454 Student Teaching Seminar (NEW)

Seminar on problems encountered by student teachers and public school teachers at the secondary level. Study and analysis of many aspects of science teaching such as legal responsibilities and professional ethics.

*Prerequisite:* SCI 450  
*Fall and spring, 3 credits*

### SCI 475 Teaching Practicum (NEW)

Study of the literature, resources, and teaching strategies in science education with a supervised clinical experience in undergraduate instruction. Satisfactory/Unsatisfactory grading only.

*Prerequisites:* Senior standing; permission of instructor  
*Fall and spring, 3 credits*

## Social Sciences

*A brochure with extended descriptions of Spring 1987 courses is available in the Social Sciences office, Social and Behavioral Sciences S-201.*

*SSI 140 and 265 have been deleted from the curriculum. SSI 265 has been replaced by HAS 303 Drug and Alcohol Education for all teacher preparation programs. See Allied Health Professions section.*

*Women's Studies courses are no longer listed with the SSI designator, although some are crosslisted. All WNS (but not WNH) courses may, however, be applied to the Social Sciences Interdisciplinary major as if they were still SSI courses. See Women's Studies section, below.*

*Students planning to enter the Social Sciences Secondary Teacher Preparation Program during the 1987-88 academic year should consult with Professor Eli Seifman during the Spring 1987 semester. Failure to do so may result in a delay in meeting the New York*

*State teacher certification requirements.*

*Students planning to take SSI 450 Supervised Student Teaching in Spring 1987 must contact Professor Seifman before the end of the Fall 1986 semester to make arrangements for a secondary school student teaching placement.*

*Students accepted for a New York State Assembly or Senate Internship in Albany (and who meet the rest of the prerequisites) should register for SSI 489 and 490 rather than SSI 488.*

### SSI 102 Introduction to Women's Studies (REVISED)

*Crosslisted with WNS 102.*

### SSI 210 Images and Realities of Childhood (NEW)

Contemporary views of childhood as reflected in societal values and attitudes. Emphasis will be placed upon present-day society whose books, films, television, music, and child-rearing customs will be analyzed to determine contemporary social roles and expectations.

*Prerequisite:* SSI 103  
*Spring, 3 credits*

### SSI 308 Battered Wives, Endangered Children (NEW)

Theories and research about physical and sexual abuse of women and children. Among the topics to be discussed are rape, incest, and spouse abuse. The approach will include sociological, psychological, and feminist perspectives. Solutions involving the medical and legal systems and the establishment of shelters will also be explored.

*Prerequisite:* 18 credits of social sciences  
*Fall, 3 credits*

### SSI 320 The Special Child (NEW)

Social, political, philosophical, and educational issues related to the habilitation and integration of children. The course focuses on the interaction between children who have developmental, sensory, communication, behavioral, orthopedic, and other health disorders as well as those who are gifted, and community response to their exceptional needs.

*Prerequisite:* SSI 103 or PSY 211  
*Spring, 3 credits*

### SSI 407 Senior Seminar in Women's Studies (REVISED)

*Crosslisted with WNS 407.*

## Sociology

A brochure with extended descriptions of Sociology courses will be available at the department office, Social and Behavioral Sciences S-401, starting November 17.

Changes in expected semester of course offerings: SOC 106, 300, 382, 385, and 406 will not be offered in Spring 1987. SOC 106 will be offered next fall, and all these courses will be offered in Spring 1988. SOC 104 has been deleted from the curriculum.

The new courses, SOC 105 Structure and Method in Sociology, SOC 106 Introduction to Sociology, Honors, and SOC 305 Modernity and Identity, below, may be used as alternative prerequisites instead of SOC 103 whenever that course is listed as a prerequisite. Preferably, one of these three courses should be used instead of SOC 103 to satisfy major requirements.

### Revised Major Requirements

1. SOC 211-212 will replace SOC 201 and 202 as requirements for the major for all students who had accumulated 45 graduation credits by the beginning of the Fall 1986 semester. (Students under the old requirement who have not yet completed SOC 201 and 202 must take the courses in 1986-87, the last year in which they will both be offered, or substitute SOC 211-212.)
2. Courses in linguistics, social sciences (SSI only), and women's studies (WNS only) may be used to satisfy the "related fields" requirements of three courses in one related social science.

### SOC 105 Structure and Methods in Sociology (NEW)

A general introduction to the science of sociology. This course emphasizes sociological theory and methods. Students will be taught what is unique about the way in which sociologists analyze human behavior and society. Differences between the sociological perspective and perspectives of other social sciences are emphasized. There will also be a heavy emphasis on the types of methods and data that sociologists use to test the validity of

their ideas. May not be taken for credit in addition to SOC 103, 106, 301, 305, or the discontinued 104.  
Fall and spring, 3 credits

### SOC 106 Introduction to Sociology: Honors (NEW)

An enriched introduction to the sociological perspective with an emphasis on how sociologists develop and test their hypotheses about human behavior. This course will require more reading and cover more difficult topics than SOC 105, providing an introduction to sociology in greater depth. May not be taken for credit in addition to SOC 103, 105, 301, 305, or the discontinued 104.

Fall and spring, 3 credits

### SOC 300 Sociological Writing (NEW)

A practicum in writing on sociological topics. Each semester the course will concentrate on different sociological topics to be selected by the instructor. The students will read books and papers on this topic, discuss them in class, and then complete a series of writing assignments on the material discussed in class.

Prerequisite: SOC 103 or 104 or 105 or 106 or 301 or 305

Pre- or corequisite: SOC 211-212

Fall and spring, 3 credits

### SOC 305 Modernity and Identity (NEW)

A sociological perspective applied to the emergence of modern society. Special attention is focused on the impact of the industrial revolution, urbanism, and the rise of modern democracies. The course will consider how new social structures, such as bureaucracies, lead to new definitions of personal identity, and how social order and culture become increasingly problematic as new social groups are formed and demands are made. May not be taken for credit in addition to SOC 103, 105, 106, 301, or the discontinued 104.

Prerequisite: Upper-division standing  
Fall, 3 credits

### SOC 320 Demography (REVISED)

Only the title has been changed.

### SOC 371 Gender and Work (NEW)

Gender differences in work force participation and occupational attainment; historical changes in workforce participation; economic, legal, and social factors affecting employment; career options; and pay equity. Crosslisted with WNS 371.

Prerequisites: SSI 101 or WNS 102 or SOC 103 or 104 or 105 or 106 or 301 or 305; either SOC 201 or two other courses in the social sciences  
Spring, 3 credits

### SOC 375 Biosociology (NEW)

Comparison of basic social processes in human and animal groups. Topics covered include dominance, hierarchies, the distribution of scarce

resources, cooperation, and the division of labor.

Prerequisites: SOC 103 or 104 or 105 or 106 or 301 or 305; either SOC 201 or two other courses in the social sciences or two courses in biology  
Spring, 3 credits

### SOC 385 The Sociology of Economic Life (NEW)

The sociological approach to markets, production, distribution, and consumption. Special attention to the differences between sociological and economic theories of the same phenomena and to the embeddedness of economic action in social structure. Topics include the historical emergence of sociology and economics as separate disciplines, labor markets and the labor process, discrimination, vertical integration and industrial organization, the organization of professions such as law and medicine, fertility and population changes, comparisons of tribal and non-Western economic systems to those familiar in modern industrial society.

Prerequisites: SOC 103 or 104 or 105 or 106 or 301 or 305; either SOC 201 or two other courses in the social sciences

Spring, alternate years, 3 credits (not offered in 1987-88)

### SOC 475 Undergraduate Teaching Practicum (REVISED)

Prerequisites: Upper-division standing; 12 credits of sociology; permission of instructor and Director of Undergraduate Studies

## Special Topics for Spring 1987

### SOC 390 Special Topics: Health Care Delivery

The focus of the course is on the organization and component aspects of the health delivery systems in this country. Particular attention is paid to the effects of this system on the patient, the provider, the institutions of the system, and the general community. The health systems of other countries are used as comparative models.  
(B. Waldman)

### SOC 391 Special Topics: Theory and Practice in Student Leadership

A seminar for students interested in developing communication and leadership skills. It will offer a combination of readings, directed observations, and experiential learning. The course will draw on sociology, social psychology, and developmental theory and will focus on organizations, small groups, leadership, and individual student development.  
Prerequisites: SOC 103 or 104 or 105 or 106 or 301 or 305; either SOC 201 or two other courses in the social sciences; permission of instructor  
(P. LaMantia)

## Theatre Arts

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*Changes in expected semester of course offerings: THR 218, 222, 316, 332, 372, 375, and 376 will not be offered in Spring 1987. The fall course, THR 371, will be offered this spring. THR 130, 213, and 307 have been deleted from the curriculum. (THR 307 has been replaced by THR 297 and 397, below).*

*Information on changes in major and minor requirements resulting from course deletions is available in the department office.*

*The new courses, THR 297 and 397, have been added to the list of performance courses that may not count toward the 90 liberal arts credits required for the B.A. degree.*

*Although all the projects courses have been made repeatable up to a maximum of six credits in any one (see THR 481-487 and 489 below), the limit of six credits that may be earned in any combination of these courses remains in effect.*

### **THR 223 Stage Costume I (REVISED)**

An introduction to costume design, combining theory and practice. Students learn the tradition and history of costume design and complete exercises in rendering and conceiving designs and working through design ideas of their own. Written reports will detail the processes followed.

### **THR 230 Voice and the Actor (REVISED—formerly THR 331)**

A practical course in voice production for the actor. Students will participate in exercises for developing the speaking voice with an emphasis on the involvement of the body. Increasing resonance, range, articulation, and their link to acting and improvisation will be explored. The International Phonetic Alphabet will be studied.  
*Prerequisite:* THR 105 or 112

### **THR 246 Stage Lighting (REVISED)**

*Prerequisite:* THR 101 or 116

### **THR 256 Stage Design I (REVISED)**

An introduction to the aesthetics and worldwide traditions of stage design. The study will include exercises in design rendering with opportunities for students to conceive and work through design ideas.  
*Prerequisite:* THR 101 or 116

### **THR 297 Rehearsal and Performance I (NEW)**

Development of skills in performance through the preparation and rehearsal of a production. Students must audition, be cast in a principal role in a major department production, or be engaged in the entire rehearsal process to receive credit. May be repeated once.  
*Fall and spring, 1 credit*

### **THR 312 Readers' Theatre (NEW)**

The preparation and performance in a readers' theatre of plays selected from the department's list of required reading for majors. There will be performances for a local audience and for a community audience off campus. May be repeated once.  
*Prerequisite:* THR 205  
*Fall or spring, 3 credits*

### **THR 330 Oral Interpretation (NEW)**

Continuation of voice study, exploring the voice as an instrument for readers' theatre. Emphasis on adaptation of non-dramatic material for the stage and on choral reading.  
*Prerequisites:* THR 230; permission of instructor  
*Fall or spring, 3 credits*

### **THR 340 Summer Theatre Workshop II (NEW)**

Advanced students will be assigned to positions of responsibility for the running of the Summer Theatre. May count toward the major with THR 244 for a combined total of 6 credits.  
*Prerequisites:* THR 244; permission of instructor  
*Summer, 1 to 6 credits*

### **THR 397 Rehearsal and Performance II (NEW)**

Further development of skills in performance through the preparation and rehearsal of a production. Student must audition, be cast in a principal role in a major department production, or be engaged in the entire rehearsal process to receive credit. May be repeated once.  
*Prerequisite:* THR 297  
*Fall and spring, 3 credits*

### **THR 481 Projects in Production Management (REVISED)**

May be repeated up to a maximum of 6 credits. This is now a variable-credit course. 1 to 3 credits.

### **THR 482 Projects in Performance (REVISED)**

May be repeated up to a maximum of 6 credits.

### **THR 483 Projects in Theatrical Design (REVISED)**

May be repeated up to a maximum of 6 credits.

### **THR 484 Projects in Theatre History, Theory, Literature, and Criticism (REVISED)**

May be repeated up to a maximum of 6 credits.

### **THR 485 Projects in Script Writing (REVISED)**

May be repeated up to a maximum of 6 credits.

### **THR 486 Projects in Technical Theatre (REVISED)**

May be repeated up to a maximum of 6 credits.

### **THR 487 Projects in Media (REVISED)**

May be repeated up to a maximum of 6 credits.

### **THR 489 Projects in Directing (REVISED)**

May be repeated up to a maximum of 6 credits.

## **Special Topics for Spring 1987**

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### **THR 299 Special Workshop: Costume Construction**

3 credits  
(J. Wing)

## **Unaffiliated Courses**

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*Changes in expected semester of course offerings: INT 200 will not be offered in Spring 1987. INT 224 and SBS 360 have been deleted from the curriculum.*

### **HUM, SBS, SCI 291 Seminar on Contemporary Issues (REVISED)**

May be repeated as the topic varies.

### **HUM, SBS, SCI 491 Seminar on Contemporary Issues (REVISED)**

May be repeated as the topic varies.

### **INT 101 Support Skills for LD Students (NEW)**

A remedial course for students with learning problems. Students will be taught how to take notes, improve memory, develop listening, reading, and writing skills, prepare for and take examinations, use the library, and develop individual compensatory strategies. Satisfactory/Unsatisfactory grading only. May be repeated once. Does not count toward graduation.  
*Prerequisite:* Permission of Resource Center staff and instructor  
*Fall and spring, 1 credit*

## **Special Topics for Spring 1987**

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### **HUM 291 Seminar on Contemporary Issues: Blind Ambition—The Seduction and Danger of Power**

Students will examine the opportunity for highly placed individuals in various

state systems to suspend their own moral accountability in order to achieve personal or political gain. Examples will be drawn from Nixon's America, Stalin's Russia, and Hitler's Germany. The class will read memoirs which exhibit the tension between ethical constraints and opportunity in contexts not governed by traditional morality.

*Prerequisite:* Residence in Langmuir College  
(P. Chase)

**HUM 491 Seminar on Contemporary Issues: Issues in Contemporary Catholicism**

An examination of a number of issues in Catholicism including the role of women, liturgy, authority in the Church, and with special emphasis on the influence of the clergy.

*Prerequisite:* Upper-division standing  
(A. Godfrey)

## Women's Studies

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**WNH 250 Women in the Third World (NEW)**

The problems of women in Third World societies, as illustrated through narratives by and about women. Oppression, madness, the quests for freedom, love, identity, and fulfillment are themes to be approached through the texts of this course. The interrelationships between women and men, underlining the basic human need for personal fulfillment, will be studied.  
*Spring, 3 credits*

**WNS 102 Introduction to Women's Studies (REVISED)**

Crosslisted with SSI 102.

**WNS 307 Psychology of Women**

(REVISED—formerly SSI 307)

Crosslisted with PSY 377.

**WNS 320 Women in Judaism (NEW)**

A survey of women in Judaism and in Jewish life from the Biblical period to the present, focusing on such topics as the representation of women in the Bible; Jewish law concerning women; the role of women in the enlightenment in Germany and America; immigrant women in America; women in the Holocaust; and women in Israel.  
Crosslisted with JDS 327.

*Prerequisite:* One JDS or WNH or WNS course

*Alternate years, 3 credits (not offered in 1987-88)*

**WNS 333 Women in U.S. History**

(REVISED—formerly SSI 333)

Crosslisted with HIS 333.

**WNS 334 Women, Work, and Family in Modern European History**

(REVISED—formerly SSI 334)

Crosslisted with HIS 336.

**WNS 371 Gender and Work (NEW)**

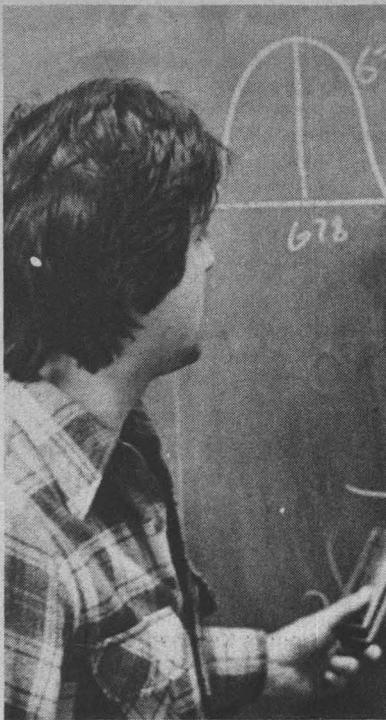
Crosslisted with SOC 371. See Sociology section for description.

**WNS 407 Senior Seminar in Women's Studies (REVISED)**

Crosslisted with SSI 407.

### Special Topics for Spring 1987

Special topics are being offered in two departments that should be of interest to students in the women's studies minor as well as other students interested in women's issues: FRN 393 and HIS 441. Note, however, that the FRN course is offered entirely in French. See the appropriate sections of the *Supplement* for further information.



# College of Engineering and Applied Sciences

## Notice to Engineering and Computer Science Majors

Effective Spring 1986, ESE 218 became ESE 318. ESE 218 will be counted as an upper-division course to meet graduation requirements.

## Applied Mathematics and Statistics

*Changes in expected semester of course offerings: AMS 491 will not be offered in Spring 1987. The fall courses AMS 301, 311, and 373 will be offered in the spring.*

### AMS 110 Probability and Statistics in the Life Sciences (REVISED)

Credit cannot be given for both AMS 102 and 110.

### AMS 113 Foundations of Computer Science (NEW)

Crosslisted with CSE 113. See description under Computer Science.

### AMS 201 Matrix Methods and Models (NEW)

Basic properties of matrix algebra, matrix norms, eigenvalues, solving systems of equations; applications to economics, growth models, Markov chains, regression, linear programming. Computer software packages used. May not be taken for credit by students with credit for MAT 231 or 241 or AMS 210.

*Prerequisite:* MAT 125 or 131  
Fall, 3 credits

### AMS 210 Applied Linear Algebra (REVISED)

Only the title has been changed.

### AMS 315 Data Analysis (NEW)

Statistical analysis of data. Exploratory data analysis. Estimation, Parametric and nonparametric hypothesis tests. Use and interpretation of statistical computer packages, e.g., SPSS. Power. Robust techniques.

*Prerequisite:* AMS 310  
Spring, 3 credits

### AMS 335 Game Theory (NEW)

Introduction to game theory fundamentals with special emphasis on problems from economics and political science. Topics include: strategic games and Nash equilibrium; games in coalitional form and the core; bargaining theory; measuring power in voting systems; problems of fair division; optimal and stable matching.

*Prerequisite:* One semester of calculus  
Fall, 3 credits

## Computer Science

*Changes in expected semester of course offerings: CSE 105, 346, and 352 will not be offered in Spring 1987. The fall courses CSE 303, 304, and 373 will be offered this spring. Contrary to the information given in the Bulletin Supplement for Fall 1986, CSE 111 and 345 will be offered this spring.*

### Revised Major Requirements

B. CSE 380 may be substituted for CSE 345 (as a Group I course). This is effective retroactively to all CSE majors.

K. Natural Science Requirements: PHY 105 may be taken instead of PHY 101. PHY 106 may be taken instead of PHY 102.

### Challenge and Proficiency Examinations

There is now a Challenge examination for CSE 111, as well as a proficiency examination.

Proficiency and Challenge examinations for CSE 111, 113, 114, and 120, as well as the



proficiency examination for CSE 201, will be given in the first week of the spring semester. These examinations (with the exception of the proficiency and Challenge examinations for CSE 111) will also be given at the end of the semester. Consult the department for times and locations.

All transfer students planning to take CSE 114, 120, 201, or higher-level CSE courses must take proficiency examinations to establish equivalence of transferred courses to serve as the prerequisite.

All students intending to take one of these examinations must register in the department office (Lab Office Bldg. 1401) during the week before the examination.

Written information about the content of the examinations is available in the department office.

### **CSE 110 Introduction to Computer Science (NEW)**

An introduction to fundamentals of computer science for non-majors. Topics covered include algorithms, problem-solving techniques, computer applications, data structures, and machine principles. Students will gain experience using a modern higher level computer programming language (currently PASCAL) to solve a variety of numeric and non-numeric problems. Primarily for students not planning to major in computer science. May not be taken simultaneously with CSE 111 or 114. Students who have a C or higher in CSE 111 or 114 may not take CSE 110.

*Prerequisite:* MAT 120 or passing Mathematics Placement Examination at entry level for MAT 125 or 131  
*Fall and spring, 3 credits*

### **CSE 111 Computer Science for Engineers (REVISED)**

Students who have a C or higher in CSE 110 or 114 may not take CSE 111. May not be taken simultaneously with CSE 110 or 114.

### **CSE 113 Foundations of Computer Science (REVISED)**

Rigorous introduction to the foundations of computer science. Problem-solving techniques and mathematical concepts will be stressed. Concentrates on general and algorithmic problem-solving principles and discrete mathematics concepts (sets, Boolean logic, relations, graphs, counting principles, functions, sequences, induction proof, algorithms, complexity verification, recursion). Prepares the student for further computer science courses and is

primarily oriented toward computer science and applied mathematics and statistics majors and intended majors. Crosslisted with AMS 113.

*Prerequisite:* MAT 120 or passing Mathematics Placement Examination at entry level for MAT 125 or 131  
*Fall and spring, 3 credits*

### **CSE 114 Computer Science I (REVISED)**

Introduces fundamental computer science concepts and applies the foundations of computer science built in CSE 113 to the analysis and development of software in the programming language Pascal. Important concepts introduced include: software documentation, design, verification and validation, data abstraction, operating systems, language translation, artificial intelligence, data processing, recursive programming, and basic machine architecture. Students will develop software systems for a variety of numeric and symbolic applications.  
*Prerequisite:* Grade of C or higher in CSE 113 or passing CSE 113 proficiency examination  
*Fall and spring, 3 credits*

### **CSE 120 Computer Organization and Systems Programming (REVISED)**

Explores the physical structure of a computer, machine representation of information, architecture and organization of various mainframe mini- and microcomputers, primary and secondary storage, and input and output communication. Introduces machine and assembly language programming, and systems programming techniques in the programming language C.  
*Prerequisite:* Grade of C or higher in CSE 110 or 111 or 114 or passing proficiency examination for CSE 111 or 114  
*Fall and spring, 3 credits*

### **CSE 201 Computer Science II (REVISED)**

Development of advanced software techniques with particular emphasis on data representation. Rigorous treatment of abstract data types (e.g., stacks and queues), tree structures, recursive data structures, and algorithms for searching, sorting, and translation. Reinforces the concepts of top-down modular software design and testing strategies. During weekly recitation sessions, students will develop applications software using the PASCAL programming language.

### **CSE 300 Software Engineering (NEW)**

Introduces students to the software life cycle, and modern techniques and tools for the proper engineering of software systems. Stresses the development of reliable and maintainable software via system requirements and specifications, software design methodologies, detailed design, and implementation, integration, and testing. Topics include: software project management, lifecycle

documentation, software maintenance, and human factors issues. Students will participate in the development of a large applications software system applying these techniques.  
*Prerequisite:* CSE 201  
*Fall, 3 credits*

### **CSE 328 Fundamentals of Computer Graphics (NEW)**

An introduction to computer graphics including: graphics application programming; data structures for graphics; representing and specifying color; fundamental hardware and software concepts for calligraphic and raster displays; two-dimensional geometric transformations; introduction to three-dimensional graphics; graphics standards; and input devices, interaction handling, and user-computer interface.  
*Prerequisites:* CSE 120 and 201; permission of instructor  
*Fall or spring, 3 credits*

### **CSE 491 Honors Seminar (NEW)**

Designed for upper-division CSE majors who have demonstrated excellence in computer science courses or a special interest in the topic being offered. Each time the course is offered, a topic will be selected comprising material not otherwise presented in undergraduate courses. May be repeated.  
*Prerequisites:* Computer science major; upper-division standing; permission of department  
*Fall or spring, 3 credits*

## **Electrical Engineering**

*Changes in expected semester of course offerings: ESE 310, 312, 321, 332, 333, 341, 349, and 351 will not be offered in Spring 1987. The fall courses ESE 304 and 331 will be offered in the spring.*

### **ESE 305 Systems and Signals (NEW)**

Concepts of linearity and time-invariance. Convolution and transfer function. Laplace transforms, z-transform. Fourier transforms and their relationships. Stability and its implications. Routh's test and Jury's test. Computer simulation, analog and digital. Provides common background for control, communication, and digital signal processing.  
*Prerequisite:* ESG 271  
*Fall, 3 credits*

### **ESE 318 Digital Systems Design**

*(REVISED—formerly ESE 218)*

The physical and logical basis of digital circuitry is covered in depth. Electronic characteristics of gates and their consequences are discussed including an introduction to circuit theory. Gate structure minimization is explained. The design of basic digital devices (counters, multiplexers, arithmetic circuits) is stressed.

*Note:* In past years this course was numbered 318, but it was changed for a short time to 218. *Digital Systems Design* meets appropriate major requirements and prerequisites when taken under either number.

## **Engineering Science**

*ESG 307 will not be offered in Spring 1987. The fall courses ESG 301 and 372 will be offered this spring.*

*ESG majors may substitute any of the following courses for AMS 362: AMS 301, 302, 310, 311, 312, 320, 326, 341, 342; MAT 310, 311, 313, 314, 315, 321, 322, 335, 342, 350, 353, and 371. It is recommended that the prerequisites be honored.*

*ESM 355 has been revised (see Materials Science and Engineering section) and is now mandatory for all students entering the ESG major beginning with the Spring 1987 semester.*

*All students entering the ESG major in or after the Spring 1986 semester will be required to fulfill, as part of their graduation requirements, at least three credits of design in their technical elective courses. The following courses have been defined as constituting 100 percent design: ESC 310, 328, 333, 334, 361; ESE 315, 318, 380; ESM 355*

### **ESG 312 Engineering Laboratory II** *(REVISED)*

This is now a 3-credit course.

### **ESG 317 Engineering Experimentation: Mechanical Engineering** *(REVISED)*

Introduction to advanced experimental methodology. Application of electrical, mechanical, and optical transducer systems to engineering experiments in solid, thermal, and fluid mechanics. Engineering report writing.  
*Spring, 3 credits*

## **Materials Science and Engineering**

*Changes in expected semester of course offerings: ESM 306, 327, 337, 347, 351, and 352 will not be offered in Spring 1987. ESM 336, normally offered in the fall, will be given in the spring.*

### **ESM 355 Materials and Processes in Manufacturing Design** *(REVISED)*

The design of mechanical and electrical systems, materials selection, and fabrication processes will be surveyed and shown to be essential components of manufacturing engineering. The mechanical and thermal processing of a wide range of metallic and nonmetallic materials will be reviewed. Modern computer-based materials selection, advanced processing methods, and automation will be explored.

*Prerequisite:* ESG 332 or 333

## **Mechanical Engineering**

*A brochure with information pertaining to Spring 1987 course offerings will be available in Light Engineering 113 starting November 11.*

*Changes in expected semester of course offerings: ESC 328 will be offered this spring. ESC 336, 361, and 365 have been deleted from the curriculum.*

*ESM 355 is no longer a required course. It may be used as a technical elective in the approved mechanical engineering technical elective group, but only for students meeting mechanical engineering major requirements with the revised ESG 317. (See Engineering Science section.)*

*Current listings of the mechanical engineering technical electives and the mechanical engineering design group are available in the department office.*

### **ESC 102 Weather and Climate** *(NEW)*

An introduction to the nature and causes of common meteorological phenomena, severe weather

occurrences, and climatic patterns. Topics to be considered include formation and movement of air masses and large-scale storms; techniques for weather prediction; weather satellites; hurricanes, tornadoes, and thunderstorms; cloud and precipitation types; the climatic history of the earth; actual and potential effect of human activities on weather and climate, and of weather and climate on humans.  
*Fall, 3 credits*

### **ESC 310 Machine Design** *(REVISED)*

Introduction to design; fundamental concepts of mechanisms; degrees-of-freedom; linkages, velocity analysis; acceleration analysis; cams; rolling contact; gears; gear trains; design of machine elements.  
*Prerequisites:* ESC 202; ESG 261 and 363

### **ESC 330 Structural Analysis** *(REVISED)*

Structural stability. Statically determinate and indeterminate structures. Analysis of trusses and frames in two dimensions. Displacement of structures using the method of virtual work. Method of superposition for analyzing statically indeterminate structures. Computer projects using matrix analysis for determinate and indeterminate trusses. Three-moment equation. Introduction to finite element analysis.  
*Prerequisites:* ESG 363; CSE 111

### **ESC 363 Elements of Aircraft Design** *(NEW)*

As an introduction to aerodynamics, performance, and stability and control, the generation of lift forces and calculations of aerodynamic forces in two- and three-dimensional subsonic flows is studied. Typical airplane performance problems of range, endurance, rate of climb, etc. are also covered.  
*Prerequisite:* ESG 364  
*Spring, alternate years, 3 credits (not offered in 1986-87)*

### **ESC 411 System Dynamics and Control** *(NEW)*

Differential equations for physical systems and their solutions; Laplace transformations; block diagram and transfer function; system response; system analysis and stability; system compensation and design. *Prerequisite:* MAT 221  
*Fall, 3 credits*

### **ESC 412 Computer-Aided Mechanical Design** *(NEW)*

Introduction to mechanical design; computing systems; graph input devices; graph output devices; computer graphics; application packages; CAD/CAM systems.  
*Prerequisite:* ESC 410  
*Spring, 3 credits*

## Technology and Society

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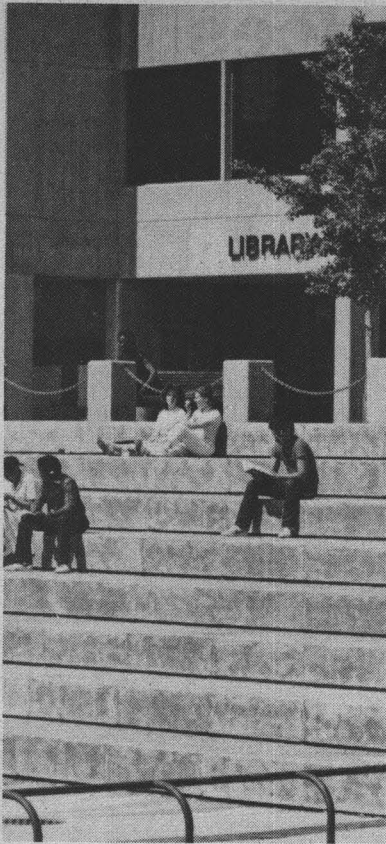
*Changes in expected semester of course offerings: EST 300, 320, 361, 370, and 392 will not be offered in Spring 1987. The fall course EST 194 will be offered this spring.*

### **EST 392 Engineering and Managerial Economics (REVISED)**

Applications of fundamental economics principles and systems analysis to problems of planning and design in manufacturing or service sectors of industry. Includes the time value of money, analysis of various types of cash flows, development of rate of return, benefit to cost ratios in their use to evaluate competing investment programs. Studies the role of depreciation and investment tax credits on the level of corporate taxation leading to the determination of after-tax rates of return. Cases from both manufacturing and service sectors illustrate techniques for analysis of multiple alternatives. Influences of inflation, sensitivity analyses, and probabilistic methods on economic forecasting are shown through problem-solving case studies.

### **EST 393 Production and Operation Analysis (REVISED)**

Development of analytical techniques useful in supplying information for planning purposes in the manufacturing and service sectors. Introduction to mathematical modeling of production, inventory, distribution, and service systems using linear programming, network, and probabilistic methods. Applications of forecasting and materials requirements planning in the development of resources to meet anticipated needs. Practical, real-life case studies are used throughout with appropriate familiarization with the uses of the computer in problem solving and simulation.



# W. Averell Harriman College for Policy Analysis and Public Management

## **Five-Year Bachelor's/ Master's Degree Program in Government, Non-Profit, and Enterprise Management**

Harriman College has expanded its Accelerated Program for Stony Brook students, allowing them to combine any Arts and Sciences or Engineering and Applied Sciences major on the undergraduate level with a master's degree program in government, non-profit, or enterprise management. This five-year program gives students ample time to develop expertise in their major area; and it makes the major marketable.

Coursework in the new Harriman program begins in the senior year (instead of the junior year, as was the case under the old program). Interested sophomores and juniors,

who must have a G.P.A. of 3.0 or higher to be accepted, should take advantage of Prime Time advising hours to seek approval of their previous coursework and assistance in choosing appropriate courses for the next semester to complement the Harriman curriculum.

Stony Brook seniors start the curriculum with nine graduate courses and finish with ten courses in the next year, receiving the baccalaureate degree simultaneously with the graduate degree. Courses are tailored to the public, non-profit, or the private sectors. The nine graduate courses taken as a senior are counted as electives for the undergraduate degree. Application to the program is made at the end of the sophomore year and to the Graduate School at the end of the junior year. For further information, see Professor Owen Carroll, Director of Graduate Studies, in Harriman College, Harriman Hall.

## **PAM 345 Special Topics in Management (NEW)**

An advanced course treating specific issues in the theory and practice of management. May be repeated for different topics.

*Prerequisites:* Upper-division standing; permission of Dean of Harriman College  
*Fall and spring, 3 credits*



# Health Sciences Center

## Minor in Health and Society

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*The following course may be used in partial satisfaction of Requirement C of the minor.*

### **HMC 361 Literature and Medicine** (NEW)

Exploration of major themes of medical care and illness as presented in works of poetry, prose, and drama. Themes include: personal and ethical dilemmas confronted by doctors; special characteristics and discourse of the medical setting; the experience of being ill; philosophical, social, and spiritual dimensions of the clinical encounter; and the search for meanings in medical events.

*Prerequisite:* One course in literature or HMC 200

*Spring, alternate years. 3 credits (not offered in 1987-88)*

## Allied Health Professions

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### **HAS 290 Medicine and Society** (NEW)

An examination of some traditional concerns of the humanities and social sciences as they occur in basic health care and its delivery. Practicing physicians or other health professionals present clinical cases to emphasize such topics as allocation of scarce resources, issues of dying and refusing treatment, confidentiality, and cultural factors and disease. Discussion will focus on the social, historical, ethical, and humanistic import of the cases.

*Crosslisted with HMC 200.*

*Fall or spring, 3 credits*

### **HAS 303 Drug and Alcohol Education** (NEW)

Specific information on the psychological and physiological effects of substance use and misuse. Students will be introduced to strategies for making responsible decisions regarding alcohol and drugs (licit and illicit) consumption and to methods of providing education in these areas. This course will fulfill the drug and alcohol use and abuse education requirements for teacher certification for students enrolled in the secondary teacher preparation programs. Not for credit in addition to HAS 304.

*Fall and spring, 1 credit*

### **HAS 304 Health Concepts** (NEW)

An overview of various health-related topics, including personal health, consumer health, preventive health care, and promotion of optimal health. Students are introduced to strategies for incorporating health decision making into their professional and personal lives. A specific unit within this course is devoted to alcohol and drug education. (Students wishing to take only this unit may do so by enrolling in HAS 303 for 1 credit, which will fulfill the teacher certification requirement for secondary teacher preparation programs.) Not for credit in addition to HAS 303.

*Fall and spring, 3 credits*

## Anatomical Sciences

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### **HBA 300 Human Biology** (NEW)

A lecture course that examines the physiology and anatomy of the human body. The course includes an examination of cellular processes and a description of the tissues and the organ systems of the body. Throughout, function is correlated with structure. Not for biological sciences major credit.

*Prerequisites:* BIO 152: C or higher in CHE 112: permission of instructor for all non-Health Sciences students

*Fall, 4 credits*

## Microbiology

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### **HBM 320 General Microbiology** (REVISED)

Study of the molecular structure and function of bacteria and viruses. Emphasis is placed on the functional anatomy, energetics, and genetics of the prokaryotic cell, and on the replication cycle and host relationships of viruses. Infectious disease processes, the immune system, and the use of antibiotics also are studied. This course satisfies the microbiology requirement for admission to veterinary, optometry, and nursing schools.

*Prerequisites:* CHE 112 or 131; BIO 231; HBA 300; permission of instructor; CHE 131, 133 recommended

### **HBM General Microbiology Laboratory** (REVISED)

Designed to complement the lecture material of HBM 320, this optional laboratory covers basic and applied microbiological methods. Techniques such as growth of bacteria in liquid and agar media, quantitative methods of determination of bacterial concentration, antibiotic sensitivity and Gram staining are included. For pre-health sciences profession students.

*Prerequisite:* Permission of instructor

*Corequisite:* HBM 320

## Pathology

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### **HBP 390 Basic Mechanisms in Pathology** (REVISED)

Biochemical mechanisms underlying human diseases, including connective tissue, macromolecules, inflammation, coagulation mechanisms, fibrinolysis, immunological defenses, and cancer.

*Pre- or corequisite:* BIO 361

## Physiology and Biophysics

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*HBY 310 has been deleted from the curriculum.*



# Marine Sciences Research Center

*Changes in expected semester of course offerings: The fall course MAR 333 will be offered in Spring 1987.*

## **MAR 337 Primary Productivity in the Sea (NEW)**

A review of classic and current research on primary production by marine phytoplankton and macroalgae. Topics will include photosynthesis and growth, nutrients, temporal and spatial variability, competition, and predation. *Prerequisites:* CHE 132 or 142; BIO 152 and one upper-division BIO course as approved by the instructor; CHE 322 or 332 recommended  
*Fall, 3 credits*

## **MAR 390 Development of Aquaculture (NEW)**

A comprehensive, interdisciplinary description and analysis of the culture of aquatic organisms for human use. The course covers both marine and freshwater aquaculture of plants, shellfish, and finfish. Basic principles of aquaculture are illustrated with specific examples of organisms cultured for staple and luxury foods, biochemicals, wastewater treatment, etc. The development of aquaculture as an industry and its role in managing aquatic resources are covered. While much of the course is biological, economic, social, and legal aspects are also emphasized. *Prerequisite:* BIO 113 or 115 or MAR 104  
*Fall, 3 credits*

## **MAR 413 Marine Biochemistry (NEW)**

Survey of biochemical features and adaptations characteristic of the marine biota. Specific topics to be discussed will include salinity, temperature and pressure adaptations, calcification and silicification, marine natural products and toxins, bioluminescence, photosynthetic light adaptation, and marine lipids. *Prerequisite:* BIO 361  
*Spring, alternate years, 3 credits (not offered in 1986-87)*

## **MAR 487 Research in Marine Sciences (REVISED)**

The limit on repeating this course has been removed.

# PROGRAM PLANNING WORKSHEET

55 - MINUTE PERIODS

80 - MINUTE PERIODS

HOUR	MONDAY	WEDNESDAY	FRIDAY	FINAL EXAMINATIONS	HOUR	TUESDAY	THURSDAY				
8:30 — 9:25				Course Day Period	8:30 —						
9:35 — 10:30					9:50						
10:40 — 11:35					10:00 — 11:20						
11:45 — 12:40					11:30 — 12:50						
12:50 — 1:45					1:00 — 2:20						
1:55 — 2:50					2:30 — 3:50						
3:00 — 4:20				Alternate Times <table border="1" style="border-style: dashed; margin: auto;"> <tr> <td style="width: 30px; height: 30px;"></td> <td style="width: 30px; height: 30px; text-align: center;">M</td> <td style="width: 30px; height: 30px; text-align: center;">W</td> <td style="width: 30px; height: 30px; text-align: center;">F</td> </tr> </table>		M	W	F	2:30 — 3:50		
	M	W	F								
3:00 — 4:20				OR	4:00 — 5:20						
4:30 — 5:50					4:00 — 5:20						
6:00 — 7:20			X		6:00 — 7:20						
7:30 — 8:50			X		7:30 — 8:50						