

2001-2003 UNDERGRADUATE BULLETIN SUPPLEMENT SPRING 2002

Psst! Can't find a course in the Bulletin? Look here!
This Supplement includes all changes and corrections to the Bulletin
AND descriptions of special topics courses!

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THIS SUPPLEMENT CONTAINS:

Changes to academic policies

New majors and minors

Changes to majors and minors
arranged alphabetically by name of program

New courses

Special topics descriptions
arranged alphabetically by course designator

and

Corrections to the *Undergraduate Bulletin*

Academic Policies and Regulations

Pass/No Credit Option

Please refer to page 61 of the 2001-2003 *Undergraduate Bulletin*. Under Pass/No Credit Option, add:

Note: Most graduate and professional schools require that prerequisite courses be taken for a letter grade and many can interpret NC grades as being equivalent to a grade of F. Students should consult the appropriate pre-professional or departmental advisors regarding the implications of electing the P/NC option.

Academic Standing, Support, and Retention

Please refer to page 63 if the 2001-2003 *Undergraduate Bulletin*. Add the following statement to the conclusion of the paragraph on **Probation**:

Students who are validly registered at Stony Brook and whose current academic standing remark is "academic probation" are considered to be in good standing for purposes of enrollment certification and participation in athletic and other co-curricular activities.

Advanced Placement Credit

Please refer to page 71 of the 2001-2003 *Undergraduate Bulletin*:

Exam	Score	SB Equiv.	Credits	D.E.C.
Physics				
B	5	PHY 131, if AP Calculus BC exam score of 5	3	E
	3 or 4	none	3	E
C:Mech.	4 or 5	PHY 131	2	none
	3	none	2	none
C:Elec&Mag	4 or 5	PHY 132	2	none
	3	none	2	none
Both C Exams			4	E

Double Degrees

The following replaces the text under "Double Degrees" on page 72 of the 2001-2003 *Undergraduate Bulletin*.

Qualified students may be granted permission to earn double degrees at the undergraduate level only if one of the majors is specified as a professional or clinical program, is externally accredited, and the total number of credits completed for the two degrees is at least 144.

Only the following currently offered professional or clinical undergraduate programs are considered to be degree programs:

- Bachelor of Engineering degree programs in bioengineering, engineering science, electrical engineering, computer engineering and mechanical engineering;
- Bachelor of Science degree in nursing;
- Bachelor of Science degree in social welfare;
- Bachelor of Science degree programs in clinical laboratory sciences, cytotechnology, occupational therapy, physician assistant, and respiratory care.

Students who are planning to complete the majors in biology and in either clinical laboratory sciences or cytotechnology should note that these programs will lead **only** to a double major, not a double degree.

Students who are planning to complete a bachelor of science degree in nursing or a bachelor of science degree in social work and any other major should note that these programs will lead **only** to a double degree, not a double major.

Students must be formally admitted to each unit granting the degree and have written approval from the dean of each college. Approval is subject to review and final authorization by the Office of Undergraduate Academic Affairs. Students completing the Bachelor of Engineering and another degree must complete the Skill and D.E.C. requirements of the College of Arts and Sciences.

Approved Majors, Minors, and Programs

The requirements for the majors, minors and programs listed below have been changed since the publication of the 2001-2003 *Undergraduate Bulletin*. When requirements change, students who have completed at least 45 credits may elect to satisfy either the previous major requirements or the new major requirements. Students with fewer than 45 credits must satisfy the new requirements, unless the major department specifies otherwise. Please consult the

section "When Major Requirements Change" in the Academic Policies and Regulations chapter of the *Bulletin*, page 71, for complete details.

Bioengineering (BME)

new major

The Department of Biomedical Engineering offers the major in bioengineering, leading to the Bachelor of Engineering (B.E.) degree. The program is designed to provide an engineering education along with the necessary background in the biological and physical sciences, and to enhance the development of skills of creativity and collaboration through study of a specialization within the field of bioengineering. Teamwork and communication skills are strongly emphasized. Students learn to understand the impact of engineering solutions in a global and societal context, especially where these solutions interface directly with the realm of the biological sciences. Graduates are prepared for entry into professions in biomedical engineering, biotechnology, pharmaceuticals, and medical technology, or for continued study in such graduate programs such as including business, engineering, law, and medicine.

To provide this intensive undergraduate experience, core courses have been developed by the biomedical engineering faculty to provide depth within the broad field of bioengineering. These courses are integrated with, and rely upon, course offerings from both the College of Engineering and Applied Sciences and the College of Arts and Sciences. In order to achieve the breadth of engineering experience expected of bioengineering graduates from Stony Brook, additional elective courses from the College of Engineering and Applied Sciences are required of all bioengineering students.

Acceptance into the Major in Bioengineering

Freshman and transfer applicants who have specified their interest in the bioengineering major may be accepted directly into the major upon admission to the University. Applicants admitted to the University but not immediately accepted into an engineering major may apply for acceptance on an ongoing basis, based on a student visit or a request to the director of the undergraduate program. Students in good academic standing may apply in any semester, but priority for admission to an engineering major is given to those students who have 1. completed MAT 132 and PHY 132 or their equivalents, 2. earned a g.p.a. of 3.0 or higher in all mathematics and physics courses with no more than one grade in the C range, and 3. received completed course evaluations for all transferred

courses that are to be used to meet requirements of the major.

Requirements for the Major in Bioengineering (BME)

The curriculum begins with a focus on basic mathematics and the natural sciences followed by courses that emphasize engineering science and bridging courses that combine engineering science and design. The sequence of courses culminates with a one-year design experience that integrates the science, engineering and communication knowledge acquired. The core sequence, technical electives, and additional courses are chosen in consultation with a faculty advisor, taking into consideration the particular interest of the student.

Completion of the major requires approximately 107 credits.

1. Mathematics

- a. AMS 151, 161 Calculus I, II
- b. AMS 261 or MAT 203 or MAT 205 Calculus III
- c. AMS 361 or MAT 303 or MAT 305 Calculus IV
- d. AMS/BME 394 Statistical Laboratory

Note: The following alternate calculus course sequences may be substituted for AMS 151, 161

MAT 125, 126, 127

MAT 131, 132

MAT 141, 142

2. Natural Sciences

- a. BIO 150 The Living World
- b. BIO 203 Fundamentals of Biology: Cellular and Organ Physiology
- c. CHE 131, 132 General Chemistry I, II
- d. PHY 131, 132 Classical Physics I, II

Note: The following alternate science sequences may be substituted:

PHY 125, 126, 127, or PHY 141, 142 in lieu of PHY 131, 132

CHE 141, 142, in lieu of CHE 131, 132

3. Computer and Programming courses

- a. ESG 111- C Programming for Engineers
or MEC 112 Practical C/C++ for Scientists and Engineers
or ESE 124 Computer Techniques for Electronic Design
- b. MEC 203 Computer Aided Drafting

4. Required Engineering Courses

- a. ESG100 Introduction to Engineering Science
or MEC 100 Introduction to Mechanical Engineering
- b. MEC 260 Engineering Statistics
- c. MEC 262 Engineering Dynamics
- d. ESE 271 Electrical Circuit Analysis I

5. Required Bioengineering Courses

- BME 201 Bioengineering and Society
BME 212 Laboratory in Bioengineering
BME 300 Writing in Biomedical Engineering
BME 301 Bioelectricity
BME 304 Genetic Engineering
BME 305 Heat and Mass Transfer in Bioengineering
BME 440 Design in Bioengineering
BME 441 Senior Design in Bioengineering

6. Bioengineering Specialization and Technical Electives

Bioengineering students must complete an area of specialization, composed of at least 30 credits in one of the three areas of specialization, including at least two 3- to 4-credit design technical elective courses. The area of specialization must be declared in writing by the end of the junior year and is selected in consultation with the faculty advisor to ensure a cohesive curriculum with depth at the upper level.

7. Upper-Division Writing Requirement

All degree candidates must demonstrate skill in written English at a level acceptable for engineering majors. All BME students need to register for the writing course BME 300 concurrently with BME 305. The quality of writing in technical reports submitted for BME 305 is evaluated, and students whose writing does not meet the required standard are referred for remedial help. Satisfactory writing warrants an S grade for BME 300, thereby satisfying the requirement.

Grading

All courses taken to satisfy requirements 1-6 must be taken for a letter grade. A grade of C or higher is required for AMS 151, 152 (or equivalent), PHY 131, 132 or equivalent, BIO 150, 203, CHE 131, 132 (or equivalent). The average of the grades for all BME courses and the technical elective courses should be at least 2.0.

Areas of Specialization

Design technical elective courses are indicated with an asterisk (*) following the course. Other courses may be used towards this requirement with the permission of the undergraduate program director.

a. Biomechanics

Courses focusing on developing an understanding of mechanical structures and dynamics. This specialization is appropriate for students interested in the areas of biofluid mechanics, biomaterials, mechanical prosthetics, or mechanical instrumentation.

Recommended courses:

- BME 303 Biomechanics
- BME 420 Computational Biomechanics*
- BME 430 Engineering Principles in Drug & Gene Delivery
- BIO 307 Comp. Modeling for Bio. Sys
- BIO 328 Mammalian Physiology
- CHE 312 Physical Chemistry
- ESE 218 Digital System Design*
- MEC 363 Mechanics of Solids
- MEC 412 Computer Aided Design*

Alternative courses:

- AMS 331 Mathematical Modeling
- BIO 307 Computer Modeling of Biological Systems
- CSE 332 Introduction to Scientific Visualization
- ESE 315 Control System Design*
- ESE 346 Computer Communication
- ESG 332 Materials Science I
- ESM 353 Biomaterials
- MAR 410 Marine Biology
- MEC 310 Introduction to Machine Design
- MEC 320 Engineering Design Methodology and Optimization
- MEC 402 Mechanical Vibrations
- MEC 411 System Dynamics & Control
- MEC 455 Applied Stress Analysis

b. Biomaterials

Courses focusing on developing an understanding of various material sciences issues pertinent to biomedical problems, specifically issues of biocompatibility of materials used in the design of biomedical devices and implants. The student study the basics of biology, organic chemistry, and material sciences, to understand how to apply skills acquired to the design of prosthetic devices and materials that will be in contact with living tissues and organs.

Recommended courses:

- BME 303 Biomechanics
- BME 430 Engineering Principles in Drug and Gene Delivery*
- ESG 302 Thermodynamics of Materials

- ESG 332 Materials Science I
- ESM 334 Materials Engineering
- ESM 335 Mechanical Properties of Materials
- ESM 353 Biomaterials
- ESM 355 Materials and Processes in Manufacturing Design*
- ESM 369 Polymers

Alternative courses:

- ESG 316 Engineering Science Design II*
- ESM 221 Intro. to Chemistry of Solids
- ESM 309 Thermodynamics of Solids
- ESG 333 Materials Sciences II
- ESG 339 Thin Film Processing of Adv. Materials
- ESM 338 Engineering Ceramics
- ESM 450 Phase Changes and Mechanical Properties of Materials
- MEC 320 Engineering Design Methodology and Optimization*
- MEC 455 Applied Stress Analysis

c. Bioelectricity

Courses focusing on the description of biological cells, tissues, and organisms as complex systems. This specialization is appropriate for students interested in the areas of bioinstrumentation, medical imaging, electrical prosthetics, electromagnetic compatibility, tissue engineering, or bioinformatics.

Recommended courses:

- AMS 210 Applied Linear Algebra
- BME 410 Biophysical Mechanisms and Models*
- CHE 133 General Chemistry Lab I
- CHE 134 General Chemistry Lab II
- CHE 321 Organic Chemistry
- ESE 218 Digital System Design*
- ESE 305 Deterministic Signals and Systems
- ESE 306 Random Signals and Systems
- ESE 315 Control System Design*
- ESE 324 Electronics Laboratory
- ESE 372 Electronics

Alternative courses:

- AMS 326 Numerical Analysis
- CSE 332 Introduction to Scientific Visualization
- CSE 326 Digital Image Processing
- CSE 327 Computer Vision
- CSE 346 Computer Communications
- ESE 304 Electronic Instrumentation and Operational Amplifiers
- ESE 307 Modern Filter Design
- ESE 311 Electrical Circuits Design I*
- ESE 316 Digital Devices and Circuits

ESE 331 Introduction to Semiconductor
 ESE 340 Basic Communication Theory
 ESE 347 Digital Signal Processing:
 Implementation
 ESG 333 Materials Science II: Electronic EST 307
 Computer Modeling of Biological Systems
 ESM 336 Electronic Materials
 EST 392 Engineering and Managerial Economics
 Properties

Bioengineering Minor (BME)

Please refer to page 120 of the 2001-2003 *Undergraduate Bulletin*. The BNG designator has changed to BME. Under A. Required Courses, change requirement 3 to read: Two 200- or 300-level BME courses (excluding BME 300).
 Note: All BNG courses have changed to BME.

Business Management (BUS)

Please refer to page 123 of the 2001-2003 *Undergraduate Bulletin*. Under Requirements for the Major in Business Management, requirement C. Economics Courses: Delete ECO 107, ECO 109, and ECO 303.
 Add ECO 108 Introduction to Economics
 Under Requirement E. Electives:
 Add ECO 303 Intermediate Microeconomic Theory

Computer Engineering (ECE)

Please refer to pages 140 of the 2001-2003 *Undergraduate Bulletin*.

- In requirement 4. Engineering Topics:
 - under a. Engineering Science, change ESE 318 Digital Systems Design to ESE 218.
 - under b. Engineering Design, delete ESE 324 Electronics Laboratory C and add ESE 382 Digital Design with Programmable Logic.
- In requirement 6. Computer Science,
 - delete CSE 306 Operating Systems (ESE 333 Real-Time Operating Systems is now required).
 - delete CSE 308 Software Engineering.
 - add CSE 219 Computer Science III.
- In requirement 7. Engineering Technical Electives,
 - delete ESE 316 Digital Devices and Circuits.
 - delete ESE 382 Digital Design with Programmable Logic.
 - add ESE 330 Integrated Electronics.
 - add ESE 476 Undergraduate Instructional Laboratory Development Practicum.

In the sample course sequence:

In Sophomore Fall, replace ESE 318 with ESE 218

In Junior Fall, replace D.E.C. with CSE 214

In Junior Spring,

- replace ESE 324 with ESE 382
- replace ESE technical elective with CSE 219
- replace CSE 214 with D.E.C.

In Senior Fall,

- change credits on ESE technical elective to 3
- replace CSE 308 with ESE 333

In Senior Spring,

- replace CSE 306/ESE 333 with ESE technical elective
- replace ESG 302 etc. with ESE technical elective.

Note: Beginning Spring 2002, ESE 318 will become ESE 218.

Computer Science (CSE)

CSE 127 has been deleted from the curriculum.

Economics (ECO)

Beginning with the Spring 2002 semester, the offerings of ECO 107 and ECO 109 have been suspended and the new ECO 108 Introduction to Economics is being offered. ECO 108 will satisfy the Economics major requirement in place of ECO 107 and 109. ECO 108 will also satisfy prerequisites to courses in place of ECO 107 and 109. Students who have previously taken ECO 107 or 109 need not take any additional 100-level Economics class toward the major.

Electrical Engineering (ESE)

Please refer to pages 158-160 of the 2001-2003 *Undergraduate Bulletin*.

Requirements for the Major in Electrical Engineering (ESE)

The areas of specialization (page 160) have been eliminated and replaced with three tracks, General Electrical Engineering, Microelectronics, and Telecommunications. Students must select one of the three tracks by the end of the sophomore year.

In requirement 1. Mathematics, add AMS 210 or MAT 211

In requirement 2. Natural Sciences, "PHY 251 or ESG 281" has been removed and added to the department's list of technical electives.

Requirements in 4, 5 and 6 have been replaced with the following:

4 Core Courses

ESE 211 Electronics Lab A

ESE 218 Digital Systems Design

- ESE 231 Introduction to Semiconductor Devices
- ESE 271 Electrical Circuit Analysis
- ESE 305 Deterministic Signals and Systems
- ESE 306 Random Signals and Systems
- ESE 314 Electronics Laboratory B
- ESE 319 Introduction to Electromagnetic Fields and Waves
- ESE 324 Electronics Laboratory C
- ESE 337 Digital Signal Processing Theory
- ESE 372 Electronics
- ESE 380 Embedded Microprocessor Systems Design I

5. Tracks One of the following:

a. General

6 ESE technical electives and 2 non-ESE technical electives

b. Microelectronics

- ESE 304 Applications of Operational Amplifiers
- ESE 311 Analog Integrated Circuits
- ESE 330 Integrated Electronics
- ESE 355 VLSI System Design
- ESE 373 RF Electronics for Wireless Communications
- 2 ESE technical electives
- 1 non-ESE technical elective

c. Telecommunications

- ESE 340 Basic Communication Theory
- ESE 342 Digital Communications Systems
- ESE 346 Computer Communications
- ESE 347 Digital Signal Processing: Implementation
- ESE 363 Fiber Optic Communications
- 2 ESE technical electives
- 1 non-ESE technical elective

6. Design

ESE 440 and 441, Engineering Design I and II
Students who select Microelectronics or Telecommunications must complete a senior design project designated for the respective area.

ESE students should visit the Department of Electrical and Computer Engineering, Light Engineering Building 267, for a copy of the sample course sequence for each track.

English (EGL)

Please refer to pages 170-172 of the 2001-2003 Undergraduate Bulletin.

Requirements for the Major in English

Under Study within the Area of the Major:

4. Six 300-level courses from among courses numbered EGL 300-379 and 390-399; EGL 490 and 496 may also be used.

5. One elective course from among courses numbered EGL 200-399. EGL 490 and 496 may also be used if not used to satisfy Requirement 4.

Under Notes on Section A:

2. This note is deleted.
3. Add EGL 399 to courses listed under American Literature.
Add EGL 321 and 322 to courses listed under Modern and Contemporary Literature
Add EGL 390-399 to courses listed under Issues and Topics in the Study of Literature

The Minor in English

Under Point B, section 3, add EGL 321 and 322 to the list of courses.

Federated Learning Community Minor in Globalization (GLS)

The Federated Learning Community is a one to two year program that focuses on an issue of major importance and leads to an academic minor. The program design enables students to register for a cluster of courses arranged around that issue. The program seminars focus and integrate the material of the "federated" courses in a small community setting. The topic for 2001-2002 and 2002-2003 is Globalization. The program responds to the growing globalization of the economy, the interdependence of nations and peoples, and the growth of international political institutions. It provides an interdisciplinary approach that includes the study of Western and non-Western cultures, requires an understanding of comparative socio-cultural analysis, is concerned with global links, interactions, and synergies, and thematizes how global changes can be assessed and changed to improve the quality of life of current and future generations and provide resources for a sustainable future.

All students may enroll in FLC courses but to receive the minor in Globalization, students must complete 24 credits of federated courses, including the program seminars, FLC 301 in the fall and FLC 302 in the spring of either 2001-2002 or 2002-2003, and six of the following courses, distributed in any manner over the four semesters:

<u>Fall 2001</u>	<u>Spring 2002</u>
AFS/ANT 380-J Race and Ethnicity in the Caribbean	ATM/PHY 237-H World Climate and Atmosphere
AFS 319-F Politics of Race	EST/POL 411 Science, Technology, and Arms Control
HIS 300-F Global History	HIS 398-H Global Techno-Science (topics course)

MUS 105-G Musics of the World I	MEC 280-H Pollution and Human Health
SOC 356-F Political Sociology	PHI 364-H Philosophy of Technology
SOC 348-F Global Sociology	POL 313-F Problems of International Relations
FLC 301 Program Seminar— <i>required</i>	SOC 348 Global Sociology
	FLC 302 Program Seminar— <i>required</i>

Fall 2002

Spring 2003

AFS/WST 350 Black Women and Social Change	ECO 317-F Marxist Political Economy
ANT 351-F Comparative Religion	HIS 365-F Environmental History of North America <i>or</i>
HIS 397-K History of Immigration (topics course)	POL 305-I Government and Politics in the UK
HIS 3xx Globalization of 3 rd World Art	POL 309-I Politics of European Union
POL 325-F Civil Liberties	FLC 302 Program Seminar— <i>required if not taken previously</i>
FLC 301 Program Seminar— <i>required if not taken previously</i>	

All courses offered for the minor must be completed with a letter grade of C or higher.

For more information about the Federated Learning Community minor in Global Studies, contact Prof. Hermann Kurthen at *Hermann.Kurthen@notes.cc.sunysb.edu* or call or stop by the Learning Communities Program office, Library N-3007 or call 632-4378.

Information Systems (ISE)

Please refer to page 195 of the 2001-2003 *Undergraduate Bulletin*. Under Requirements for the Major in Information Systems, requirement C. Economics and Business Courses: Delete ECO 109 Introduction to Analytical Economics Add ECO 108 Introduction to Economic Analysis

International Studies (KIS)

Please refer to page 198 of the 2001-2003 *Undergraduate Bulletin*.

The interdisciplinary minor in international studies provides an integrated view of global processes through a critical examination of the world's institutions, ideas, cultures, and historical traditions. Students should develop a strong grasp of current social, political, and economic developments in the world, and be able to apply this knowledge to analyze both the opportunities and problems created by global processes, and the possibilities for social activism and change. The minor is open to all undergraduates regardless of academic major or place of

residence. In addition, the minor is a living learning center program affiliated with Stimson International College and residents of Stimson have preference in enrollment. Students are encouraged to live in Stimson and actively participate in the college, although this is not required. As part of the minor requirements, students select a world region to study from among the following: Western Europe (and the developed world), Eastern Europe (including the former Soviet Union), the Middle East, Asia, Africa, or Latin America/Caribbean. Students are also encouraged to spend a semester abroad, with these credits counting toward fulfillment of the minor.

Requirements for the Minor in International Studies

Completion of the minor requires 20 credits. All courses offered for the minor must be passed with a letter grade of C or higher.

1. LIS 201 Democracy and Capitalism
2. Two courses chosen from the following:
AMR 101 Local and Global: National Boundaries and World-Systems
ANT 102 Introduction to Cultural Anthropology
ANT 230 Peoples of the World
LIN 101 Introduction to Linguistics
PHI 105 Politics and Society
POL 101 World Politics
POL 103 Introduction to Comparative Politics
SOC 105 Introduction to Sociology
3. Three courses (9 credits) from any department focussing on the student's regional area of study. Two of these courses must be numbered 300 or higher.
4. LIS 401 Global Social Problems

Note: With the approval of the director, study abroad may substitute for requirement 3 above.

Jazz Music (JAZ) new minor Requirements for the Minor in Jazz

All courses offered for the minor in jazz music must be passed with a letter grade of C or higher. At least 3 credits from requirement 2 in either track must be at the upper division level. Completion of the General Track requires 23 credits. Completion of the Theory track requires 24 credits.

General Track

1. Theory
MUS 119 Elements of Music or MUS 130 Sound Structures
MUS 315 Structural Principles of Music I
MUS 389 Jazz Improvisation

Note: Students well versed in music notation and basic theory (demonstrated by the MUS 119 challenge examination) should take MUS 130.

2. History
MUS 101 Introduction to Music
MUS 308 History of Jazz
One of the following:
MUS 304 Contemporary Traditions in American Music
MUS 310 Music and Culture in the 1960s
MUS 355 Special Topics when topic is appropriate
3. Performance
Two semesters of the following:
MUS 264 Big Band Jazz Ensemble
MUS 267 Jazz Combo

Theory Track

1. Theory
MUS 121 Musicianship I
MUS 220 Musicianship II
MUS 221 Musicianship III
MUS 130 Sound Structures
MUS 321 Tonal Harmony I
MUS 389 Jazz Improvisation
2. History
MUS 308 History of Jazz
3. Performance
MUS 267 Jazz Combo
Two semesters of the following:
MUS 187 Lessons
MUS 264 Big Band Jazz Ensemble

Latin American and Caribbean Studies

Please refer to page 207 of the *Undergraduate Bulletin*. Add note 3: LAC 487 may be substituted for LAC 488 with permission of the director.

Theatre Arts (THR)

The major has been revised.

Requirements for the Major in Theatre Arts (THR)

The major in theatre arts leads to the Bachelor of Arts degree. All courses offered for the major must be passed with a letter grade of C or higher.

Completion of the major requires 55 credits.

A. Core Courses

1. THR 100 Performing and Performance
or THR 105 Acting I
2. THR 115 Stagecraft I
3. THR 116 Stagecraft II

4. THR 120 Analysis/Performance/Media
5. THR 216 Introduction to Visual Interpretation
6. THR 205 Acting II
or THR 336 Stage Management
7. Two semesters each of:
THR 200 Theatre Practicum I
THR 300 Theatre Practicum II
8. THR 310 Historical Contexts
9. One of the following:
THR 312 American Theatre and Drama
THR 315 European Theatre and Drama: The Classical Era
THR 316 European Theatre and Drama: The Modern Era
10. THR 313 Asian Theatre and Drama
11. THR 380 Company I
12. THR 381 Company II
13. THR 401 Senior Seminar
14. THR 402 Senior Projects

B. Electives

Twelve additional credits in one of the following areas: performance; playwriting; design; technical theatre; dance; media; technology; or history, theatre, and criticism.

C. Upper Division Writing Requirement

This requirement remains unchanged.

Requirements for the Minor in Theatre Arts (THR)

Please refer to page 275 of the 2001-2003 *Undergraduate Bulletin*.

Change requirement 1. to THR 100 Performing and Performance or THR 105 Acting I

Change requirement 3. to THR 380 Company I.

Mathematics

Please refer to page 216-217 of the *Undergraduate Bulletin*. Under Requirements for the Major in Mathematics, change

6.a. Two courses in analysis:

MAT 320 and

MAT 322 or 324 or 341 or 342

Honors Program in Mathematics

Change paragraph two and requirement 1 as follows:

The program consists of a set of seven MAT courses, at least three of which are not used to fulfill the MAT major requirements. These courses must include: MAT 260; MAT 322 or 324; MAT 401 or 402; a course in algebra other than MAT 310 or 318; and MAT 495....

1. Completion of the set of seven courses with a grade point average of at least 3.50.

Course Descriptions

The courses below are special topics courses for Spring 2001 or have been added to the curriculum or have been changed in some way since the publication of the *2001-2003 Undergraduate Bulletin*. If a course has been "revised," only the revisions to the course information in the *Bulletin* are included here. Special topics course descriptions only include prerequisites additional to those enumerated in the *Bulletin*.

AFH 368 Caribbean and America Connections in Literature *revised course*

Not for credit in addition to the discontinued AFH 213.
Crosslisted with EGL 368.
Prerequisite: U3 or U4 standing

AFH 385 French Caribbean Literature *revised course*

Not for credit in addition to the discontinued AFH 212.
Crosslisted with HUF 385.
Prerequisite: U3 or U4 standing

AFS 421 Youth and Gang Violence

special topic spring 2002

AMR 390-G The Gangster in Literature *special topic spring 2002*

Exploration of the gangster in the literature of American writers of Italian descent. Drawing on background material in Greek mythology, historical and sociological studies of American masculinity and violence, and popular culture studies, the course provides a context for understanding the figure of the gangster and explores the interactions of gender and ethnicity. May be repeated as the topic changes. Crosslisted for Spring 2002 with HUI 390-G.

AMS 310 Survey of Probability and Statistics *revised prerequisite*

Prerequisite: AMS 201 or 210 or MAT 211

AMS 394 Statistical Laboratory *new crosslisting*

Crosslisted with BME 394.

AMS 410 Actuarial Mathematics *revised description and prerequisites*

Integrates calculus and probability with risk assessment and insurance in a quantitative manner to prepare students for the first actuarial examination.

Prerequisites: AMS 261 or MAT 203 or 205; AMS 310; AMS 311 or 315

ANP 300 Human Anatomy *revised prerequisite*

Prerequisite: ANP 120 or BIO 201 or BIO 202.

ANP 350 Methods in Studying Primates *new course*

Introduction to the concepts and practical skills needed to conduct scientific work, particularly in the study of primates, including how to collect and analyze data focusing on habitat description, primate densities, use of space, and social interactions. Topics include design and presentation of research; ecological field methods; behavioral observations; and other techniques. Students are required to plan a small research study and to present their proposal in class. Some computer work outside class required.

Prerequisite: ANP 120 or BIO 201

3 credits

ANT 310 Islands of Southeast Asia

special topic spring 2002

ANT 391-F Human Demography

special topic spring 2002

ANT 393-F Ethnographic Methods

special topic spring 2002

ANT 401 Mediterranean *special topic spring 2002*

ARH 111-G Representing Sexuality: An Introduction to Queer Studies *new course*

A survey of historical representations of queer difference from the late 19th century to the present. Works of visual art, literary representations and poetry are examined as evidence of the shifting understanding of lesbian/gay/bisexual/transgendered/queer identity. Crosslisted with WST 111.

3 credits

ARH 306-I The Early Renaissance in Italy *new*

crosslisting

Crosslisted with HUI 306.

ARH 307-I The Age of Michelangelo in Central Italy

revised course

Crosslisted with HUI 307.

ARH 310-I Splendors of Renaissance Art in Venice

revised course

Crosslisted with HUI 310.

ARH 390-I Topics in European Art: Masterpieces of Italian Renaissance Sculpture *new course special topic spring 2002*

May be repeated as the topic changes.

Prerequisites: U3 or U4 standing; ARH 101.

3 credits

ARS 201-D Photography for Non-Majors *new course*

An introductory non-darkroom course on the fundamentals of camera techniques, photographic history, and terminology as well as the visual language of still and moving imagery. Students must own a 35mm camera with manual capability. Books, photographic materials, and field trip expenses are estimated to cost \$200.

Advisory Prerequisite: ARS 154

3 credits

ARS 318 Music and the Moving Image *new*

crosslistings

Crosslisted with MUS 318 and THR 318.

ARS 491 Public Art *special topic spring 2002*

Study and practice of public art with Prof. Nobuho Nagasawa, who has created public works commissioned in Toyko, Los Angeles, Copenhagen, and other sites world wide. May be repeated as the topic changes.

ARS 492 Portraiture *special topic spring 2002*

Study and practice of portraiture with Prof. Howardina Pindell, whose portraits range from video performance, rendering a self-portrait of her history as an artist and African American, to portraits of time, place and events, including war, oppression and politics, as well as the traditional self-portrait. May be repeated as the topic changes.

AST 101 Introduction to Astronomy *revised description*

Add to course description: "Not for major credit."

AST 105 Introduction to the Solar System *revised*

description

Add to course description: "Not for major credit."

AST 112 Astronomy Laboratory *revised description*

Add to course description: "Not for major credit."

ATM 437 Forecasting Practicum *new course*

The course provides students with additional forecasting experience. Students make at least three forecasts per week for either Long Island or a city designated by the National Forecast Contest. Students write a weather discussion for each forecast and verify their forecasts to show their progress during the semester.

Pre- or Corequisite: ATM 347

1 credit

BIO 206 Cellular and Organ Physiology Seminar

new course

Seminar course designed to supplement BIO 203. The seminar explores the principles of cellular and organ physiology through additional readings and discussions of critical thinking questions and problems using both synchronous online chats and asynchronous threaded discussions.

Corequisite: BIO 203

1 credit

BIO 210-E Human Physiology *revised course and credits*

Three hours of lecture and one three-hour laboratory per week. Not for major credit. Not for credit after BIO 203 or BIO 328.

Prerequisites: BIO 150

Advisory Prerequisite: ANP 300

4 credits

BIO 343 Invertebrate Zoology *revised description*

Delete "Not for credit in after BIO 340 or 344 or 346 if passed with a C or higher."

BIO 344 Chordate Zoology *revised description*

Delete BIO 340 and BIO 343 from the statement, "Not for credit after BIO 340 or 343 or 346 if passed with a C or higher."

BIO 346 Aquatic Arthropods and Vertebrates

revised description

Delete BIO 340 and 343 from the statement, "Not for credit after BIO 340 or 343 or 344 if passed with a C or higher."

BIO 409 Advances in Developmental Biology

special topic spring 2002

BNG courses:

All BNG courses have been changed to BME.

BME 212 Laboratory Methods in Bioengineering

(formerly BME 309) only the course number has been changed

Not for credit in addition to the discontinued BME 309.

BME 303 Biomechanics *revised course and prerequisites*

A rigorous introduction to the interactions between mechanics and biology. Basic concepts of mechanics are covered and the mathematical tools necessary to explain the concepts, with a strong emphasis on the relevant biology. Topics include force vectors, moments and torque, analyses of systems in equilibrium, skeletal joints and muscles, stress and strain in living systems, material properties of

biological tissues, multiaxial deformations and stress analyses, and mechanical modeling of biological tissues.
Prerequisites: BIO 201 or 202 or 203; MEC 260
 3 credits

BME 305 Heat and Mass Transfer in

Bioengineering *new course*

The fundamentals of heat transfer, mass transfer, and fluid mechanics in the context of physiological systems. Techniques for formulating and solving biofluid and mass transfer problems with emphasis on the special features and the different scales encountered in physiological systems, from the organ and the tissue level down to the molecular transport level.

Prerequisites: AMS 361; MEC 262
 3 credits

BME 394 Statistical Laboratory *new course*

Statistics and their applications. Basic statistical techniques including sampling, design, regression, and analysis of variance are introduced. Includes the use of statistical packages such as SSPS and SAS. Students translate realistic research problems into a statistical context and perform the analysis. Crosslisted with AMS 394.

Prerequisite: One AMS course (AMS 102 or 110 or 310 or 315 recommended)
 3 credits

BME 420 Computational Biomechanics *new course*

Introduces the concepts of skeletal biology, mechanics of bone, ligament, and tendon; and linear and nonlinear properties of biological tissues. Principles of finite differences method (FDM) and finite elements method (FEM) to solve biological problems. Both FDM and FEM are applied to solve equations and problems in solid and porous media. Requires knowledge of Fortran or C programming.

Prerequisite: BME 303 or MEC 363
 3 credits

BME 430 Engineering Approaches to Drug and Gene Delivery *new course*

Introduction to the application of engineering principles and biological considerations in designing drug delivery systems for medical uses. The concept of biocompatibility and its implications in formulating controlled release devices are illustrated. Emphasis on the use of biodegradable materials to design drug delivery systems for site-specific applications.

Prerequisites: AMS 161 or MAT 132 or 142; BIO 203; BME 304
 3 credits

BUS 341 Wireless E-Commerce *special topic spring 2002*

Wireless technology, including mobile phones, personal computers, and laptops is a rapidly growing field and part of many businesses. This course focuses on the present and future use of wireless in a variety of sectors including education, health care, shipping, defense, manufacturing, hospitality, and entertainment. Considers start-ups and established firms that supply wireless services and technology in the U.S. and overseas.

Prerequisites: U3/U4 BUS, CSE, ESE, or ECE major.

BUS 342 Financial Policies and Strategies *special topic spring 2002*

Applications of financial engineering in decision making are discussed. Starting with the theoretical foundations, except for the traditional topics such as valuation of bonds and stocks, debt and equity management, dividend policy and financial forecasting, the course develops practices of the SWOT analysis, venture capital, initial public offerings and seasoned equity offerings. In addition, corporate restructuring and financial distress are explored.

Prerequisites: BUS major, U3/U4; BUS 355

CHE 123-E Introductory Chemistry I *new course*

This course develops skills in information processing, critical thinking, and problem solving. Content is taken from the first half of CHE 131: stoichiometry, chemical structure and reactions, solutions, acids and bases. Not for credit in addition to CHE 131 or 141 or the discontinued CHE 121.

Prerequisites: Level 2 on the mathematics placement examination and high school chemistry or Level 3 on the mathematics placement examination

Corequisite: MAP 103 or appropriate MAT course

Advisory Corequisite: CHE 133

3 credits

CHE 124-E Introductory Chemistry II *new course*

This course continues to develop reasoning skills. It covers material from the second half of CHE 131, including atomic and molecular structure and bonding, liquids and solids, and solution chemistry. Not for credit in addition to CHE 131 or 141.

Prerequisites: C or higher in CHE 123; MAP 103

Corequisite: MAT 123

Advisory Corequisite: CHE 134

3 credits

CHE 130 Problem Solving in General Chemistry

new course

This course provides a structured environment for completing CHE 131 homework assignments and helping students develop the quantitative reasoning and problem solving skills needed in General Chemistry.

Satisfactory/Unsatisfactory grading only. Grading is based on attendance and participation. Required for students taking CHE 131 along with MAT 123.

Corequisites: CHE 131; MAT 123

0 credit, S/U grading

CHI 395-J, 396-J Modern Chinese Literature I, II

new courses

A detailed study of selected masterpieces written during the first half of the 20th century (1911-1949). Students are expected to improve their skills in literature appreciation and to model their own writings after works read in class.

Designed for students who are already proficient in Chinese.

Prerequisite: CHI 312

3 credits per course

CLT 361 Family Fictions: Family Dynamics in Literature through the Lens of Psychoanalysis

special topic spring 2002

An application of psychoanalytic theory to literary depictions of family dynamics, introducing psychoanalytic concepts through the reading of theoretical works. Theories include those of Freud, the Object Relations, and the Self-Psychology Schools of psychoanalysis, for which early family relationships are the building blocks of personality. May be repeated as the topic changes.

CSE 230 Introduction to Programming in C and C++

revised course

An intermediate introduction to the C and C++ programming languages. Topics include basic control structures and data types, functions and program structures, pointers and arrays, input and output system calls, classes and types, inheritance and object-oriented programming, exceptions and templates. Recommended for students who have already completed an introductory programming course and plan to take advanced courses that required familiarity with C or C++.

Prerequisites: CSE 110 or 114 or MEC 112 or ESG 111

CSE 346 Computer Communications

revised course

Basic principles of computer communications. Introduction to performance evaluation of protocols. Protocols covered include those for local, metropolitan, and wide area networks. Introduction to routing, high speed packet switching, circuit switching, and optical data transport.

Other topics include TCP/IP, Internet, web server design, network security, and grid computing. Not for credit in addition to CSE 310. Crosslisted with ESE 346.

Pre- or corequisite for ESE and ECE majors: ESE 306

Pre- or corequisite for CSE majors: AMS 310 or 311

Prerequisite for CSE majors: CSE 220

CSE 375 Concurrency

new course

The concurrent execution of asynchronous processes in the abstract using state diagrams and a related language. The concurrent aspects of Java are discussed as a practical implementation of these issues and program logic is introduced to describe them formally. Examples are drawn from operating systems, database systems, and communication systems.

Prerequisite: CSE 305 or 306 or ESE 333

3 credits

CSE 390 Advanced Software Development

special topic spring 2002

Teaches students to build professional quality software as part of a team. The course is a continuation of CSE 308. Based on group experience gained in CSE 308 and using the Unified Modeling Language (UML) to specify and design their project, students work in teams of approximately 10 members on an advanced level project. They will produce a complete set of documentation for their project including a Specification Document, Design Document, User Manual, and a Test Plan, which they will execute as part of the project. Each team meets individually with the professor on a regular basis to review group interactions and dynamics as the project unfolds. Not for credit in addition to CSE 219.

Prerequisites: CSE or ISE major; U3 or U4 standing; CSE 308

3 credits

CSE 392 Programming Challenges

new course special topic spring 2002

Introduces an interesting variety of topics in programming, algorithms, and discrete mathematics through puzzles and problems from the ACM International Collegiate Programming Contest and similar venues.

Prerequisites: CSE/ISE major, U3/U4; CSE 214

3 credits

CSE 393 Introduction To Computer Animation

new course special topic spring 2002

Concentrates on technical aspects of computer animation including algorithms for keyframe interpolation, morphing, animation of natural phenomena, and character animation.

Prerequisites: CSE/ISE major, U3/U4; AMS 211 or MAT 210; CSE 328

3 credits

CSE 394 Knowledge Representation *new course special topic spring 2002*

Covers the design and implementation of intelligent computing systems. Specific topics include search strategies, planning, expert systems, and machine learning. Emphasizes techniques for knowledge representation fundamental for search, planning, and building expert systems. Introduces logic programming in Prolog, a language used for implementation of intelligent systems.
Prerequisite: CSE/ISE major, U3/U4; CSE 214
 3 credits

ECO 108-F Introduction to Economics *new course*

An introduction to economic analysis. Microeconomics (the study of individual, firm, industry, and market behavior) and macroeconomics (the study of the determination of national income, employment, and inflation). Not for credit in addition to the discontinued ECO 107 or ECO 109.
Prerequisites: WRT 101; C or higher in MAT 122 or MAT 123 or AMS 151 or level 4 on the mathematics placement examination
 4 credits

ECO 303 Intermediate Microeconomic Theory

revised prerequisites
Prerequisites: ECO 107 or 108 or 109; C or higher in MAT 122 or MAT 123 or AMS 151 or placement level 4 on the mathematics placement examination

ECO 305 Intermediate Macroeconomic Theory

revised prerequisites
Prerequisites: ECO 107 or 108 or 109; C or higher in MAT 122 or MAT 123 or AMS 151 or placement level 4 on the mathematics placement examination

ECO 320 Mathematical Statistics *revised prerequisites*

Prerequisites: ECO 107 or 108 or 109; WRT 101; C or higher in MAT 122 or MAT 123 or AMS 151 or placement level 4 on the mathematics placement examination

ECO 325 International Economics *new course*

Economic theory of international trade, protection, commercial policy, customs unions, capital movements, and international finance.
Prerequisite: ECO 303
 3 credits

ECO 317, 318, 339, 340, 341, 345, 360 *revised prerequisites*

Prerequisites: ECO 107 or 108 or 109

ECO 353 Urban Economics *special topic spring 2002*

Microeconomic view of the variety of aspects of urban areas, including the importance of social interactions,

toward an understanding of economics in the broader social picture of an urban area. Using theoretical microeconomics and quantitative data and models, students consider such questions as why cities exist; how they change over time; and the special issues arising in urban areas, such as housing, transportation, poverty, and discrimination. May be repeated as the topic changes.
Prerequisite: ECO 303

ECO 354 Regional Economics *special topic spring 2002*

Major theories of economic structure within a spatial context are examined. Special attention is paid to economic growth within a spatial world, migration of firms and resources across space, the empirical modeling of these processes, and regional economic modeling. Topics in regional economic modeling include export base theory, input-output modeling, social accounting matrices (SAMs), computable general equilibrium (CGEs), and regional econometric and conjoined models. May be repeated as the topic changes.
Prerequisite: ECO 303

ECO 357 Business Cycles *special topic spring 2002*

The analysis of business cycles using an eclectic approach. Analysis of post-World War II U.S. macroeconomic data, identifying major events, turning points, periods of boom and bust, as well as some stylized facts of business cycles; analysis of monetary theory and international macroeconomics. May be repeated as the topic changes.
Prerequisites: ECO 305 and 320

EGL 320-G Middlebrow Modern

special topic spring 2002

EGL 347-G Richardson and Fielding

special topic spring 2002

EGL 350-G Mostly Melville *special topic spring 2002*

Emphasis on the works of Herman Melville.

EGL 352-G The Poetry of W.B. Yeats

special topic spring 2002

EGL 361-G Experimental Poetry

special topic spring 2002

EGL 362-G Modern British Drama

special topic spring 2002

EGL 371-G Women American Poets

special topic spring 2002

EGL 372-G Early Modern Women Writers

special topic spring 2002

EGL 374-G Odyssey and Ulysses

special topic spring 2002

EGL 375-G Christians and Jews *special topic spring 2002*

EGL 368 Caribbean and America Connections in Literature *new crosslisting*

Crosslisted with AFH 368.

EGL 440 Performance and Technology in Teaching Literature and Composition *formerly EGL 393 revised course*

Not for credit in addition to the discontinued EGL 393.

EGL 441 Methods of Instruction in Literature and Composition *revised course formerly EGL 398 revised course*

Not for credit in addition to the discontinued EGL 398.

ENS 119 Physics for Environmental Studies *change in prerequisite*

The prerequisite has changed to a corequisite.
Corequisite: MAT 125 or 131 or 141 or AMS 151

ESE 218 Digital Systems Design *revised course number*

Formerly ESE 318.

ESE 231 Introduction to Semiconductor Devices

new course

The principles of semiconductor devices. Energy bands, transport properties and generation recombination phenomena in bulk semiconductors are covered first, followed by junctions between semiconductors and metal-semiconductor. The principles of operation of diodes, transistors, light detectors, and light emitting devices based on an understanding of the character of physical phenomena in semiconductors. Provides background for subsequent courses in electronics.

Prerequisites: MAT 132 and PHY 132

3 credits

ESE 300 Writing in Electrical/Computer Engineering *revised corequisite*

Corequisite: ESE 324 for ESE majors; ESE 382 for ECE majors

ESE 304 Applications of Operational Amplifiers

revised title

Only the title has changed.

ESE 311 Analog Integrated Circuits *revised title*

Only the title has changed.

ESE 324 Electronics Laboratory C *revised corequisite*

Corequisite: For ESE majors, ESE 300

ESE 331 Introduction to Semiconductor Devices

revised prerequisite

Prerequisite: ESE 311

ESE 344 Software Techniques for Engineers *revised course*

Trains students to use computer systems to solve engineering problems. Includes C/C++ programming languages, UNIX programming environment, basic data structures and algorithms, and object oriented programming.

Prerequisites: ESE 124; ESE 218 or the discontinued ESE 318

ESE 346 Computer Communications *revised course*

Basic principles of computer communications. Introduction to performance evaluation of protocols. Protocols covered include those for local, metropolitan, and wide area networks. Introduction to routing, high speed packet switching, circuit switching, and optical data transport. Other topics include TCP/IP, Internet, web server design, network security, and grid computing. Not for credit in addition to CSE 310. Crosslisted with CSE 346.

Pre- or corequisite for ESE and ECE majors: ESE 306

Pre- or corequisite for CSE majors: AMS 310 or 311

Prerequisite for CSE majors: CSE 220

ESE 355 VLSI System Design *new course*

Introduction to mask level integrated circuit design. Techniques of VLSI CMOS system design in the MOS technology are presented. Includes CMOS processing technology, mask layout methods and design rules, MOS digital circuit analysis and design, various SMOS circuit design techniques, arithmetic building blocks, and design for testability. Correct engineering design methodology is emphasized. A project-oriented course in which students design a simple 16-bit, 2-stage pipelined RISC microprocessor. Extensive use of commercial CAD tools. Eligible projects are fabricated through the MOSIS system.

Prerequisites: ESE 218 or the discontinued ESE 318

4 credits

ESE 372 Electronics *revised corequisite*

Corequisite for ESE and ECE majors: ESE 211

ESE 373 RF Electronics for Wireless Communications *new course*

Introduces basic concepts and key circuits of radio-frequency systems. Taught within the design and construction of a transceiver for wireless communications, the course covers fundamental principles which apply to all radio devices. Essential theoretical background, with additional emphasis on practical implementation using

commercially-available integrated circuits for double-balanced mixers, oscillators, and audio power amplifiers. Basic components and circuits; key elements of radio electronics, including filters, matching networks, amplifiers, oscillators, mixers, modulators, detectors, and antennae. Computer simulation via Pspice and Puff is emphasized as an integral part of the design process.

Prerequisite: ESE 372

3 credits

ESE 382 Digital Design Using VHDL and PLDs

revised corequisite

Corequisite: For ECE majors, ESE 300

ESE 476 Instructional Laboratory Development Practicum *new course*

Students work closely with a faculty advisor and staff in developing new laboratory experiments for scheduled laboratory courses in electrical and computer engineering. A comprehensive technical report and the instructional materials developed must be submitted at the end of the course. May be used as a technical elective for electrical and computer engineering majors. May be repeated as an open elective.

Prerequisites: U4 standing; minimum cumulative g.p.a. of 3.0 and minimum grade of A- in the course for which the students will develop material; permission of department and instructor

3 credits

FLC 302 Global Techno-Science, Communication, and Environment *special topic spring 2002*

This program seminar anchors the Federated Learning Communities' course cluster and integrates topics from the federated courses concerning the global causes and effects of scientific and technological innovation, new forms of communication and networking, environmental pollution, the spread of deadly diseases such as HIV/AIDS, the proliferation of nuclear, chemical and biological weapons of mass destruction in the hands of states and terrorists, and the ethical, social, and political ramifications of these challenges for life on planet Earth in the 21st century.

GEO 109-E Life through Time *new course*

An examination of biodiversity as preserved in the fossil record and how it contributes to the understanding of evolution. Species examined include invertebrates, plants, dinosaurs, and mammals and the ultimate origin and evolution of humans. Principles of evolution, paleontology, phylogeny reconstruction, and conservation are discussed.

3 credits

GEO 320 Glacial Geology *new course*

History of glaciation on earth; formation and dynamics of glaciers and ice sheets; processes of glacial erosion and deposition; and the nature of glacial sediments and landforms particularly relating to the development of Long Island.

Prerequisite: GEO 102 or 122

3 credits

GER 343 Introduction to Literary Genres *change in title*

GER 344 Survey of German Literature *change in prerequisite*

Prerequisite: GER 212

**GER 401 German Drama,
GER 402 German Prose,
GER 403 German Poetry, and
GER 404 Goethezeit** *change in prerequisite*

Prerequisite: GER 343 or GER 344

GER 420 Literature of the Romantic Period *special topic spring 2002*

HIS 350-J Modern North Africa and the Middle East *special topic spring 2002*

Examination of the history of Algeria, Morocco, and Palestine-Israel as three case studies in the modern history of North Africa and the Middle East. Political and cultural history are addressed, with particular attention to contact with European and American cultures and states. Materials may include C.R. Pennell's *Morocco Since 1830*; Anthony Clayton's *The Wars of French Decolonization*; Fatima Mernissi's *Beyond the Veil: Male-Female Dynamics in a Modern Muslim Society*; primary sources in *The Arab-Israeli Reader*; Tahar Benjelloun's *French Hospitality*; and the film, *The Battle of Algiers*. May be repeated as the topic changes.

HIS 392-I Zionism Before 1948 *special topic spring 2002*

From its inception the Zionist movement was home to widely diverse conceptions of Jewish national rebirth and dramatically different strategies for achieving it. This course traces the emergence and development of these conceptions over the century that preceded the establishment of the State of Israel in 1948. May be repeated as the topic changes.

HIS 394-H Reproductive Issues in American History *special topic spring 2002*

Topics such as the history of marriage, childbirth, fertility, abortion and birth control in American history are considered. May be repeated as the topic changes.

HIS 396-K Perfection and Association in 19th Century America *special topic spring 2002*

Introduction to the nature and origins and legacies of ideas and associations that people put into practice during America's middle period, roughly 1820-1876, including such 19th-century movements and topics of debate as fourierism, associationism, perfectionism, labor radicalism, egalitarianism in work, education and suffrage, Unitarianism, socialism, temperance, art unions, physiology, phrenology, mesmerism, animal magnetism and transcendentalism. May be repeated as the topic changes.

HIS 397-K "Changing Women": American Indian Women's History *special topic spring 2002*

Using an ethnohistorical approach, and integrating aspects of sociology, psychology, and literature, this course explores the history of the lives of American Indian women from a variety of tribes and will examine five major themes: the politics and methodologies involved when writing about Indian women; finding Indian women's voices; the role of Indian women in their tribal societies; the changing definitions of identity, race, class, and gender within tribal society as a result of colonialism, and, the varying definitions of "feminism" among Native women. May be repeated as the topic changes. Crosslisted with WST 396 for spring 2002.

HIS 398-H TechnoScience: From Local to Global Networks *special topic spring 2002*

Consideration of engineered networks, such as transportation networks (roads, canals, railway lines, airline routes), communication networks (optical and electrical telegraphy, telephony), power networks (electric utilities), and information networks (printing, and the Internet); and how they became ubiquitous, how they evolved and how much of the globe they covered at various points in time. May be repeated as the topic changes.

HIS 399-K Crime and Police in America *special topic spring 2002*

The development of police, courts, prisons, criminal law and crime from the 17th century to the present is the focus of this course. The course covers the changing nature of crime and criminals, creation and change in the institutions of criminal justice, and how people have perceived and responded to crime over time. Readings consists of four to five books and a course pack, including general histories, literature, and newspaper items. May be repeated as the topic changes.

HIS 412 History of Harlem in the 20th Century *special topic spring 2002*

This course traces the black community in Harlem from the early 1900s to the late 1990s. The focus is the latter half of the century, 1950-1990. Topics include: the Renaissance, community organizing, the riots, and the rise of black militancy, housing loss, the heroin, HIV/AIDS, crack and violence epidemics, and gentrification. Slides and walking tours supplement the readings. May be repeated as the topic changes.

HIS 413 Objects and Practices: 19th Century American Culture as History *special topic spring 2002*

Investigation of culture and cultural production as a topic of historical research and as evidence for larger historical patterns, designed to teach students the elements of the historian's craft – the use and interpretation of primary source material, research techniques, and the construction of written and oral arguments – and to acquaint them with some of the leading theoretical and historiographical problems in the field of cultural history. May be repeated as the topic changes.

HIS 414 Topics In American History since 1917 *special topic spring 2002*

HIS 421 The Incas And Their Descendents *special topic spring 2002*

Consideration of the extraordinary achievements of the Inca empire; indigenous reactions to Spanish colonial rule; rural Andean forms of livelihood; and resistance and survival under oppressive colonial and postcolonial regimes. Use of scholarly sources from history, anthropology, and literature as well as historical and visual documents. May be repeated as the topic changes.

HIS 441 The History of World Mapping and Travel *special topic spring 2002*

Consideration of the question: Is the modern world map the true picture of the face of the earth, or is it the outcome of an increasing number of travelers over ever longer distances, or is it the imposition of scientific cartography over nonscientific ways of mapping?. May be repeated as the topic changes.

HIS 451 Medievalism Lives *special topic spring 2002*

Examination of medieval "case studies" and their modern cultural adaptations in literature, art, music, film, etc., focussing especially on King Arthur and the Round Table, in medieval and in modern versions, and Joan of Arc (d.1431). Students prepare a research paper or project, such as an opera, tapestry, poem, or mural. May be repeated as the topic changes.

HUE 269-I Apocalypse Now *special topic spring 2002*

An examination of apocalypse and revelation in artistic texts. Particular attention is devoted to the discourse of apocalyptic literature. Readings from works by Blake, Dostoevsky, Bulgakov, Yeats, Nabokov, and Milosz. May be used to satisfy English major requirement. May be repeated as the topic changes.

HUG 321-G Death or Dishonor *special topic spring 2002*

Major German plays of the 18th century in English translation. Plays include G.E. Lessing's *Emilia Galotti*, Goethe's *Egmont* and *Iphigenia at Tauris*, Schiller's *Intrigue and Love* and *Maria Stuart*, and Kleist's *Prince Friedrich von Homburg* and *Penthesilea*. May be repeated as the topic changes.

HUF 385 French Caribbean Literature *revised course*

Not for credit in addition to the discontinued AFH 212. Crosslisted with AFH 385.

Prerequisite: U3 or U4 standing

HUI 306-I The Early Renaissance in Italy *new*

crosslisting

Crosslisted with ARH 306.

HUI 307-I The Age of Michelangelo in Central Italy

new crosslisting

Crosslisted with ARH 307.

HUI 310-I Splendors of Renaissance Art in Venice

new crosslisting

Crosslisted with ARH 310.

HUI 390-G The Gangster in Literature *special topic spring 2002*

Exploration of the gangster in the literature of American writers of Italian descent. Drawing on background material in Greek mythology, historical and sociological studies of American masculinity and violence, and popular culture studies, the course provides a context for understanding the figure of the gangster and explores the interactions of gender and ethnicity. May be repeated as the topic changes. Crosslisted for Spring 2002 with AMR 390-G.

HUM 475 Undergraduate Teaching Practicum I, II *new courses*

Work with a faculty member as an assistant in one of the faculty member's regularly scheduled classes. The student is required to attend all the classes, do all the regularly assigned work and meet with the faculty member at regularly scheduled times to discuss the intellectual and pedagogical matters relating to the course. In HUM 476, students assume greater responsibility in such areas as

leading discussions and analyzing results of tests that have already been graded. Students may not serve as teaching assistants in the same course twice.

Prerequisites to HUM 475: U3 or U4 standing; permission of instructor and chairperson

Prerequisites to HUM 476: HUM 475; permission of instructor and chairperson

3 credits per course; S/U grading

HUR 341-G Forbidden Texts *special topic spring 2002*

Literary works censored or banned by their societies. Emphasis is on the texts of Vladimir Nabokov and other Russian authors who have come into sharp conflict with prevailing ideological and social norms, with examples from American fiction, including Salinger, Faulkner, and Hemingway, toward an intercultural understanding of literature's threat to the prevailing order. No knowledge of Russian required. May be used to satisfy English major requirements. May be repeated as the topic changes.

ISE 390 Introduction to Analysis, Modeling, and Design *special topic spring 2002*

Introduction to system analysis design processes. Topics include the system development life cycle; analysis and design techniques; information systems planning and project identification and selection; requirements collection and structuring; process modeling; data modeling. Students will use current methods and tools.

Prerequisites: ISE MAJ, U3/U4; CSE 219

ITL 435 20th-Century Italian Theatre *special topic spring 2002*

The major Italian plays of the 20th century with particular emphasis on the works of Luigi Pirandello. Other playwrights considered include G. Verga, R. Bracco, U. Betti, D. Fabbri, E. DeFilippo, D. Fo, and M. Fratti. May be repeated as the topic changes.

KRH 332 Intellectual History of East Asia *special topic spring 2002*

A study of influences and confluences among major currents of thought in East Asia. Consideration of the origins of the great intellectual traditions of China; the transformation of these traditions as they were assimilated by Japan and Korea; the special contributions of Korean and Japanese thinkers and schools of thought and parallel trends in China; the rise of Neo-Confucian orthodoxy in East Asia and the political and philosophical reasons why its basic concepts were challenged during the Ming, Late Choson, and Tokugawa periods. May be repeated as the topic changes.

LAC 400 Senior Seminar in Latin American and Caribbean Studies *new course*

A small thematic interdisciplinary seminar integrating students' broader college experience in Latin American and Caribbean courses. Themes vary depending on instructor.

Prerequisites: 15 credits toward the minor in Latin American and Caribbean Studies

3 credits

first offering Fall 2002

LAC 487 Independent Research in Latin American and Caribbean Studies *new course*

Supervised research with faculty in the Latin American and Caribbean Studies program. Students develop their own research projects under the supervision of a faculty member or assist with a faculty member's own research.

Prerequisites: 15 credits toward the Latin American and Caribbean studies minor; permission of instructor

0-6 credits

LAC 488 Internship in Latin American and Caribbean Studies *revised description*

Volunteer work in community, research organizations, or cultural centers relating to Latin American or Latino affairs, arranged in consultation with the LACC director. Current list of intern opportunities available at the LACC, Social and Behavioral Sciences building, N-333.

LAN 447 Directed Readings *new course*

May be repeated.

Prerequisite: Permission of instructor

1-6 credits

LHD 301 Men in American Society

special topic spring 2002

LHD 302 Gender and Parenting *special topic spring 2002*

LHD 401 Gender and Sex in Popular Music

special topic spring 2002

LIN 344 Literacy Development *new course*

An introduction to the theories of literacy and language development of native English speakers and students who are English language learners in pre-school through grade 12. Students acquire knowledge in the development of literacy skills among children of different developmental and ability levels and develop learning experiences that integrate literacy skills and assessment across all disciplines. Attention is given to children with special needs and the integration of technology in the development of literacy skills.

Prerequisite: Enrollment in a teacher preparation program
3 credits

LIN 345-J Writing Systems of the World *change in prerequisite*

Prerequisite: "LIN 101 or satisfaction of Skill 3 Elementary Foreign Language Competence."

LIN 375-J Language and life in the Middle East

special topic spring 2002

LIN 375 TESOL Pedagogy: Theory and Practice

revised course

Introduction to language and literacy instruction, instructional approaches, and assessment models for the teaching of speaking, listening, reading, and writing. Students design standard-based lessons and evaluate resources and technologies.

Prerequisites: One 200 level linguistics course and two years of a language other than English.

Corequisite: LIN 449.

3 credits.

LIN 378 Content-Based Language and Literacy Development *revised course*

Introduction to language and literacy development across disciplines and to assessment, cooperative learning, and reflective practices. Students develop standard-based interdisciplinary thematic units, integrate technologies, and explore collaborative practices.

Prerequisite: LIN 375

Corequisite: LIN 449

3 credits

LIN 426 World Englishes *special topic spring 2002*

LIN 449 Field Experience in Grades N-12 *new course*

Observation, inquiry, and practice in language and literacy development across disciplines for learners from linguistically and culturally diverse backgrounds. Students are placed in variety of educational settings in elementary and secondary schools for 50 hours of fieldwork. May be repeated. Satisfactory/Unsatisfactory grading only.

Corequisite: LIN 375 or LIN 378

1 credit, S/U grading

LIN 451, 452 Supervised Teaching—English as a Second Language: Primary Grades N-6, Secondary Grades 7-12 *revised prerequisites*

Prerequisites: Linguistics major; 3.00 g.p.a. in major 2.75 g.p.a. overall; permission of department; New York teacher certification examinations LAST and ELPA

LIN 454 Managing Instruction, Assessment, and Resources *revised course*

Examination of effective practices, assessments, and technologies for developing language and literacy across

content areas in multi-level classrooms. Collaboration with colleagues, parents, and communities is explored.

Prerequisites: LIN 378; permission of instructor; New York teacher certification examinations LAST and ELPA

Corequisites: LIN 451 and 452

LIS 201 Democracy and Capitalism *revised course*
Introduction to the two major ideologies and structures shaping the world today: democracy and the interstate political system, and capitalism and the world-economy. How they came into being, how they have been transformed over time, and how and whether they continue to be transformed. The course seeks to understand global connections between democracy and capitalism, and how the workings of the interstate system and the world-economy combine to impact power, culture, and social change at both the global and local level.

2 credits

LIS 401 Global Social Problems *revised course and prerequisite*

The consequences of the "globalization" of social, economic, and political life around the world. Topics include economic inequality and poverty; environmental degradation; AIDS epidemics; gender inequality and patriarchy; racism; human rights issues; migration and immigration and how they have shaped and been shaped by the social, political, and economic dynamics underlying them. Consideration of the possibilities of global-local activism and social change. Conducted as part seminar and part practicum.

Prerequisite: LIS 302; participation in living/learning center in International Studies or permission of instructor

LRN 134 Contemporary Issues in Medicine and Biology *new course*

A one-credit seminar focussing on contemporary issues in medicine and biology. May be repeated as the topic changes.

Corequisite: WRT 102

1 credit

LRN 301-K Seminar in American Cultures: Coming of Age in the Caribbean *special topic spring 2002*

Examination of the diversity of Caribbean culture and society resulting from slavery and colonialism, including similarities and differences between slave systems and their effects. Both historical and literary texts are examined in order to establish knowledge of the indigenous people prior to slavery and colonialism and to facilitate more specific understanding of what it means to grow up in the Caribbean.

Prerequisites: U2 standing or higher, one course in each of DEC categories B, F, and G.

LRN 332-H Ethical and Social Issues in Health Care *special topic spring 2002*

An interdisciplinary approach to concepts of medical ethics through application to current issues in medicine and biology. Topics include issues arising from advances in medical care, human experimentation, and genetic manipulations. Includes work on a research project sponsored by the Center for Disease Control that involves mentoring high school students to research teen health issues in preparation for a conference on *University and High School Partnerships in Health and Higher Education*. Optional sessions link topics in medicine and biology to the underlying chemical processes.

Prerequisites: U2 standing or higher, one DEC category F course. Priority given to students in the Learning Communities Program co-registered for CHE 322

MAR 395 Marine Analytic Chemistry *special topic spring 2002*

MAT 211 Introduction to Linear Algebra *change in description*

Add to description: May not be taken for credit in addition to AMS 210.

MAT 260 Problem Solving in Mathematics *change in credit*

1 credit.

MAT 324 Real Analysis *new course*

Metric spaces, including compactness, connectedness, completeness, and continuity. Introduction to Lebesgue integration. Aspects of Fourier series, function spaces, Hilbert spaces, Banach spaces.

Prerequisites: MAT 203 or 205 or AMS 261; MAT 320
3 credits

MAT 402 Winding Numbers in Geometry and topology *special topic spring 2002*

Global properties of closed curves, mostly in the plane, and winding numbers, which count how many essential times such a curve surrounds a given point. Topics include: the intersection number formula, rotation index, total curvature and the Theorem of Turning Tangents, convex curves and the isoperimetric inequality, Jordan's Separation Theorem, Kronecker's Existence Theorem and the Fundamental Theorem of Algebra, Brouwer's Fixed Point Theorem, the Theorem of Borsuk-Ulam, and the Ham-Sandwich Problem.

MUS 300-H Music, Technology, and Digital Culture *new course*

Study of the interactions between music, technology, and culture in popular and concert music since World War I. Issues of production, distribution, and reception, involving such topics as the impact of radio on composition in the 1920s and 1930s, early synthesizers, and the rise of electronic music, digital sampling and DJs, the MP3 phenomenon, cross-cultural borrowings, gender and technology, the internet, interactivity, and new models of consumption. Not for major credit.

Prerequisite: One of the following: MUS 101, 105, 106, 119, or 130

3 credits

MUS 318 Music and the Moving Image *new crosslistings*

Crosslisted with ARS 318 and THR 318.

MUS 450 Music and Ritual *special topic spring 2002*

Consideration of the function music plays in the ritual process; the forms of music that have arisen to accompany rituals; and how to analyze their function and efficacy, including the question: Can music itself serve as a ritual? Readings are taken from anthropological and musicological texts, and methodologies applied to musical analysis in Western and non-Western contexts. A particular focus is the function of music in the time of war, whether for mourning or in the summoning of patriotic fervor. May be repeated as the topic changes.

PEC 210 Emergency Care of Athletic Injuries *new course*

Recognition and management of medical emergency with emphasis on those condition which are most commonly suffered by athletes. Successful completion leads to CPR certification by the National Safety Council.

Prerequisite: PEC 205; permission of department
3 credits

PEC 320 Evaluation and Assessment of Athletic Injuries *new course*

The principles of orthopedic examination and assessment. Emphasis on the components of the comprehensive orthopedic physical examination including: history, inspection, palpation, functional testing, and special evaluation techniques. A laboratory course designed to develop the student's psychomotor skills of orthopedic examination and assessment.

Prerequisites: ANP 300; PEC 305; permission of department
3 credits

PEC 360 Rehabilitation of Athletic Injuries *new course*

Covers principles and objectives inherent in rehabilitating athletic injuries. Discusses orthopedic rehabilitation fundamentals, as well as specific conditioning and re-conditioning techniques. Exposes students to the different types of exercises and equipment used in rehabilitation. Provides laboratory experience in applying various rehabilitation techniques.

Prerequisites: PEC 320 and 345; permission of department
3 credits

PEC 370 Exercise Physiology *new course*

The objective of this course is to assist the student in gaining an understanding and appreciation of the metabolic and physiological adaptations of exercise. Two hours of lecture and three hours of laboratory per week.

Prerequisites: ANP 300; BIO 328; permission of department
4 credits

PHI 380-G Speaking the Truth, Pursuing Reconciliation *special topic spring 2002*

An investigation of philosophical issues that arise from the diverse and distinctive literary works, histories, and literary theories produced by American writers of Asian descent. The course explores the forces that bind, divide, and foster exchange among writers and critics of Asian American literature and examines the topography and texture of Asian American literature through the lenses of national and transnational history. Theories of racial and ethnic identity formation and modern and postmodern literary theories. May be repeated as the topic changes.

PHI 384-G Irigaray in Contemporary Feminist Perspective *special topic spring 2002*

Focus on the work of Luce Irigaray, one of the leading feminist thinkers in France today, including questions of sexual difference and fluid embodiment, her rethinking of subjectivity, and her attempt to formulate an ethics. Consideration of the way in which Irigaray reads the philosophical tradition and of the ways in which her own work has been appropriated and extended by contemporary feminist thinkers on this continent. Readings from *This sex which is not one*, *An Ethics of Sexual Difference*, and *Sexes and Genealogies*, among others. May be repeated as the topic changes. Crosslisted with WST 384.

PHI 390 Privacy: Sociological, Legal, & Philosophical Issues *new course special topic spring 2002*

The course considers the concept of privacy and its limits, including efforts to protect individual privacy (and rationales for limiting privacy) in a variety of social settings. Readings focus on philosophical discussions of privacy in

law and ordinary life; anthropological accounts of privacy invasion and protection in non-Western societies; studies of privacy and disclosure in contract, commerce and the media; and studies of invasion and protection of privacy via computing and other technological innovations. May be repeated as the topic changes. Crosslisted with SOC 390 for Spring 2002.

Prerequisite: One philosophy course; one sociology course
3 credits

PHI 400 Nietzsche *special topic spring 2002*

This course will examine the principal texts of Friedrich Nietzsche. . May be repeated as the topic changes.

PHI 435.01 Senior Seminar: The Body and the Self *special topic spring 2002*

In this seminar, designed for senior philosophy majors, students develop their own research project in the area of philosophical psychology. Emphasis on understanding how aberrant or abnormal behavior or personality characteristics can be used in developing a theory of the person. Readings include Ian Hacking's *Rewriting the Soul: Multiple Personality and the Sciences of Memory*.

PHY 104 Opportunities in Physics *new course*

An introduction to current activities of physicists on Long Island. Stony Brook faculty and alumni and other physicists discuss their current projects and their professional development, and relate their activities both to the introductory physics curriculum and to open issues such as unification of the forces, the quest for high T_c superconductors, the search for the quark-gluon plasma, and coherent states of atoms trapped at low temperature. Tours of university, industry, and government lab facilities are included, as well as interaction with physicists in non-traditional areas including medicine, finance, and the media.

Prerequisite: Grade of B or higher in PHY 125 or 131 or 141
Corequisite: PHY 126 or 132 or 142
1 credit, S/U grading

PHY 119 Physics for Environmental Studies *change in prerequisite*

The prerequisite has changed to a corequisite.
Corequisite: MAT 125 or 131 or 141 or AMS 151

PHY 310 Probability and Statistics for Experimental Physics *new course*

Statistical techniques used for data analysis in experimental physics, including standard analytic techniques and their modern computational extensions such as random number generation, Monte Carlo methods and ensemble tests. The

probability theory basis underlying all methods is studied.
Prerequisites: MAT 331; PHY 303
3 credits

PHY 313-H Mystery of Matter *revised description*

The evolving understanding of matter, and the social contexts that drive, retard, or otherwise influence this evolution. Topics may include Galileo's clash with the Church over the nature of stary matter; physics and chemistry of vapors and the social upheavals which ended the careers of Priestley and Lavoisier; "cold fusion," the pressures of funding, publicity, and the path from folly to fraud; radiation and fear, whether real, perceived, or only politically useful, and the closing of the Brookhaven Research Reactor.

POL 390 Diplomacy *special topic spring 2002*

POL 401 Immigration and Refugees

special topic spring 2002

POL 402 Foreign Policy of India *special topic spring 2002*

Critical analysis of the foreign policy of India since independence in 1947, with special reference to nonalignment and relations with the major powers. The compelling factors behind India's entry into the nuclear "club" and its impact on international relations within the subcontinent and beyond. The course also examines the Kashmir issue and its effect on India's relations with the countries of their adoption. May be repeated as the topic changes.

PSY 349 Psychology of Drug Addiction *special topic spring 2002*

Consideration of drugs from an historical perspective, specific categories of drugs and their psychological effects, the motivations for drug use, the social implications of drug use, and the legal ramifications and factors affecting how drugs interact with the human body. The course also examines various modes of drug treatment, the effectiveness of treatment and the impact of prevention and education in addressing problems caused by drug use, misuse and abuse. The use of tobacco and alcohol is addressed in-depth as these drugs cause many more deaths than illicit drugs. May be repeated as the topic changes.

PSY 358 Forensic Psychology *new course special topic spring 2002*

Exploration of many aspects within the realm of forensic psychology, defined as any application of psychological knowledge or methods to a task faced by the legal system. Topics include child custody, sexual abuse, discrimination,

jury selection and criminal profiling. The course is designed to enlighten students about the relationship between psychology and law by displaying how psychological research and theory plays a critical role in the legal process. May be repeated as the topic changes.

PSY 359 Drugs and the Brain *special topic spring 2002*
The pharmacology, i.e., the history, mechanism of action, side effects, etc., of drugs that are taken to produce changes in the brain and/or mind. Topics include antidepressants, antischizophrenics, hallucinogens, drugs of abuse, and CNS depressants. May be repeated as the topic changes.

PSY 369 Self Control *special topic spring 2002*
May be repeated as the topic changes.

RLS 431 Religious Vision of Teilhard de Chardin *special topic spring 2002*
Consideration of the topic “evolution and Christian thought” through examination of the works of Teilhard de Chardin, Roman Catholic priest and paleontologist, whose work *The Phenomenon of Man* is considered one of the most significant religious works of the 20th century. May be repeated as the topic changes.

RUS 101 Intensive Elementary Russian *new course*
An intensive course covering the elementary Russian program (RUS 111, 112) in one semester. RUS 101 is designed for students who have no prior knowledge of the language. A student who has had two or more years of Russian in high school (or who has otherwise acquired an equivalent proficiency) may not take this course without written permission from the supervisor of the course. May not be taken for credit after any other course in Russian. *6 credits*

SAS 401 Indian Classical Music *special topic spring 2002*

SOC 338 Sociology of Crime *revised prerequisite*
Prerequisite: SOC 105; two other courses in the social sciences

SOC 390 Privacy: Sociological, Legal, & Philosophical Issues *special topic spring 2002*
The course considers the concept of privacy and its limits, including efforts to protect individual privacy (and rationales for limiting privacy) in a variety of social settings. Readings focus on philosophical discussions of privacy in law and ordinary life; anthropological accounts of privacy invasion and protection in non-Western societies; studies of privacy and disclosure in contract, commerce and the media; and studies of invasion and protection of privacy via

computing and other technological innovations. May be repeated as the topic changes. Crosslisted with PHI 390 for Spring 2002.

Prerequisites: One philosophy course; one sociology course

SOC 392 Health Care Delivery *special topic spring 2002*
The organization and component aspects of the health delivery system of the United States. 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 and to foster an understanding of the availability of other health delivery systems.

SPN415 Literature and Politics: Reading Colonial Texts from the Present *special topic spring 2002*
Exploration of colonial texts and their repercussions in present social, political and cultural Latin American and Caribbean problematics. Readings range from early pre-hispanic and colonial texts to internet comunicados from Zapatista Army of National Liberation. May be repeated as the topic changes.

SPN 435 The Historical Novel in Latin America *special topic spring 2002*
Beginning with *Jicotencal* (1826)—arguably the first historical novel written in the Spanish language—the course studies the development of the historical novel from its beginnings to its latest manifestations in Latin American literatures taking into account its relationship to larger historical, philosophical, and cultural issues. Writings by Domingo F. Sarmiento, Cirilo Villaverde, Martin Luis Guzman, Augusto Roa Bastos, Alejo Carpentier, and Ricardo Piglia, are examined. May be repeated as the topic changes.

SPN 445 Politics, Poetry and Detective Fiction in Modern Spain *special topic spring 2002*
The works of two Spanish writers: Manuel Vazquez Montalban, a prolific author of detective fiction, a genre that has enjoyed immense popularity in recent decades in Spain; and Javier Egea, a member of a group of poets based in Granada that flourished in the 1980's. Consideration of the parallels between the compulsion to decipher the enigma represented by the dead body and the desire to understand historical and social processes in general; and examination of the interconnections between literature and society, represented by the problem of how to write poetry when market ideology has penetrated into the very intimacies of our being. May be repeated as the topic changes.

SPN 465 The Structure of Spanish Language *special topic spring 2002*

Introduction to principles of linguistics through the study of the Spanish language; its structure, and diversity. The course looks at the structure of Spanish words of classical origin, including most common base forms and rules from which alternate ones are derived. Students should expect to achieve substantial enrichment of their vocabulary, while learning about semantic change, abstract rules of Spanish word formation, as well as descriptive analysis of morphological and syntactic structures in Spanish Language. May be repeated as the topic changes.

SSI 210-F Introduction to Human Growth and Development in the Family Context *new title*

SSI 327 Human Growth and Development in the Educational Context *change in title and development*

The biological and psychological development of childhood and adolescence that affects teaching and curriculum development for diverse learners. Additional topics include childhood and adolescent psychiatric disorders, special education programs, drug and alcohol use and abuse, and societal issues.

THR 100-D Performing and Performance *new course*

Study and practice in performance and communications: interpersonal communication, public presentations, and theatrical performance.

3 credits

THR 120 Introduction to Technology and Performance *new course*

A general introduction to the critical analysis of images and image-making through experimentation with the interface between performance and technology. Students are introduced to the digital programs needed for constructing and sequencing images and creating a hypertext presentation/performance.

3 credits

THR 216-D Introduction to Visual Interpretation *revised course*

A design and analysis course emphasizing the construction of space in the two dimensions of the computer screen and the three dimensions of everyday reality. The course examines the way space is constructed and meanings are assigned to it and considers the effects of race, gender, ethnicity, and class on those interpretations. Projects involve use of digital programs for video manipulation and editing.

THR 200 Theatre Practicum I *new course*

Students develop their skills in various areas of costume, set construction, lighting, props, media, sound, makeup, scene painting, and marketing through work on building crews for Theatre Arts department productions. Assignments are project-based and require considerable time outside of class. May be repeated once for credit.

Prerequisite: THR 205 and 216

1 credit

first offering fall 2002

THR 300 Theatre Practicum II *new course*

Students serve as running crew and crew chiefs, while developing their skills in various areas of costume, set construction, lighting, props, media, sound, makeup, scene painting, and marketing through work on building crews for Theatre Arts department productions. Assignments are project-based and require considerable time outside of class. May be repeated once for credit.

Prerequisite: Two semesters of THR 200

1 credit

first offering fall 2002

THR 310 Historical Contexts *new course*

Introduction to research principles and methods necessary to understand the relationship between historical and cultural contexts, and analysis and interpretation of drama and theatre. Students are exposed to different approaches to research in history and culture while focusing on the significance of this research on production. Students are required to do a significant and specific research project on a text or form of theatre from a particular period.

Prerequisite: U3 or U4 standing

3 credits

first offering fall 2002

THR 318 Music and the Moving Image *new crosslistings*

Crosslisted with ARS 318 and MUS 318.

THR 346 Lighting Design *change in prerequisite*

Prerequisite: THR 246

THR 380 Company I *new course*

A concentrated study of one play in preparation for a production of the play in the following semester. Students study the play in depth, including historical context, a complete analysis, critical writings, and a production history. In conjunction with the director and designer, the class conceptualizes the various design elements for the production and develops designs based on appropriate research. The cast and designers are drawn from students in the course. Students are expected to spend time outside of

class developing web pages and other computer-based assignments for the course.

Prerequisites: U3 or U4 standing; theatre arts major
3 credits

THR 381 Company II *new course*

A continuation of THR 380. Students rehearse, design, build, market, and produce the text discussed during the first course in the sequence. Students explore different approaches to rehearsing, styles of acting, building techniques, and the process of technical rehearsal. The course ends with a public production of the play. Students are expected to spend time outside of class developing web pages and other computer assignments for the course.

Prerequisite: THR 380
3 credits

THR 390 Experimental Theatre *new course*

An exploration of the world of experimental theatre—its history, its theory, and its practices. Questions addressed focus on the choices made by the artists, and the forces within the culture that encourage the forms they use. The final project requires students to create a site-specific work, alone or in teams, that may or may not use alternative media.

3 credits
first offering fall 2002

THR 402 Senior Projects *new course*

In this capstone course, students work in teams to create a performance piece that addresses issues of text, media, site, and collaboration. In preparing their projects, students investigate issues relevant to cultural context, with special emphasis on issues of ethnic background in relation to contemporary and popular culture. In the process of developing the final projects, students read in areas of performance and cultural criticism.

Prerequisites: U4 standing; theatre arts major or minor
3 credits

WST 111-G Representing Sexuality: An Introduction to Queer Studies *new course*

A survey of historical representations of queer difference from the late 19th century to the present. Works of visual art, literary representations and poetry are examined as evidence of the shifting understanding of lesbian/gay/bisexual/transgendered/queer identity. Crosslisted with ARH 111.

3 credits

WST 384-G Irigaray in Contemporary Feminist Perspective *special topic spring 2002*

Focus on the work of Luce Irigaray, one of the leading feminist thinkers in France today, including questions of sexual difference and fluid embodiment, her rethinking of subjectivity, and her attempt to formulate an ethics. Consideration of the way in which Irigaray reads the philosophical tradition and of the ways in which her own work has been appropriated and extended by contemporary feminist thinkers on this continent. Readings from *This sex which is not one*, *An Ethics of Sexual Difference*, and *Sexes and Genealogies*, among others. May be repeated as the topic changes. Crosslisted with PHI 384.

WST 390-G Race and Gender in Film *special topic spring 2002*

Examination of the intersections of race, gender, and class as they are portrayed in American films that deal with the issue of "passing", particularly race or sex passing, using psychoanalytic and feminist theory to analyze the ways that racial, gender and class passing challenges and/or solidifies notions of identity, particularly race or gender identity. Discussion of the implications of these discourses of passing on larger issues of identity and identity politics. Readings from texts by Anne McClintock, Peggy Phelan, Rey Chow, Kalpana Seshadri-Crooks, Marjorie Garber, Valerie Smith, Gayle Wald and Judith Butler, among others. Films include Stahl's *Imitation of Life*, Kazan's *Pinky*, McGehee & Siegel's *Suture*, and Cronenberg's *M Butterfly*. May be repeated as the topic changes.

WST 391-G Queer Theory *special topic spring 2002*

This class explores the contributions of queer people of color and working class queers to the history of queer communities and political activism in America, 1880-1980. Through examination of the discourses of music, fiction, memoir, and film, the course considers "queerness" as a multi-faceted form of cultural identity and the cultural and ideological forces that shape sexual self-understanding in particular contexts. Case studies include the Harlem Renaissance, European sexology, lesbian butch-femme, World War II, urban bar culture, and the Stonewall riots.

WST 394-H Social Issues in Human Reproduction *special topic spring 2002*

The course explores all sides of a wide variety of controversial issues in the area of human reproduction. Examples include cloning, "high tech" pregnancy, stem cell research, abortion, transracial/ethnic adoption, public breastfeeding, and drug/alcohol use during pregnancy.

WST 395-J Feminist Theory in Global Context

special topic spring 2002

The social and political realities of women in cultural contexts located outside America: India, Afghanistan, Latin America, Africa, China and Great Britain. The ways that certain patterns of global development (e.g. colonization, transnational capitalism, the global AIDS epidemic, etc.) have helped shaped women's oppression and struggles of resistance and political mobilization in these settings. How women's political organizing and activism shed insights onto women's movements in America.

WST 396-K "Changing Women": American Indian Women's History *special topic spring 2002*

Using an ethnohistorical approach, and integrating aspects of sociology, psychology, and literature, this course explores the history of the lives of American Indian women from a variety of tribes and will examine five major themes: the politics and methodologies involved when writing about Indian women; finding Indian women's voices; the role of Indian women in their tribal societies; the changing definitions of identity, race, class, and gender within tribal society as a result of colonialism, and, the varying definitions of "feminism" among Native women. May be repeated as the topic changes. Crosslisted with HIS 397 for spring 2002.

WST 401 Women and Medicine *special topic spring 2002*

Focus on selected women's health issues, among them breast cancer, fat and skinniness, cosmetic surgery, and women and HIV/AIDS. Study of the historical antecedents of problems raised by these topics, as well as proposed solutions that are under discussion today. A main theme of this course is that disease and their treatments are socially constructed, and thus a society's view of women plays a key role in how their bodies are defined and manipulated by medical professionals.

Note: Park Avenue, NYC location Attendance at conference on April 29, 2002 in New York mandatory

WST 402 Feminism in Science Fiction *special topic spring 2002*

Introduction to the characteristics and history of science fiction, arguably the literary genre best suited to an examination of gender and for imagining alternative social structures. The course introduces several feminist concerns (including utopia, reproduction and science) and examine these themes as they appear in sci-fi short stories, novels and film.

WST 408 Senior Seminar for Women's Studies

Majors revised prerequisite

Prerequisites: WST 305; 15 additional credits in the major; U4 standing; WST major

WST 476 Undergraduate Teaching Practicum in Women's Studies II *new course*

Work with a faculty member as an assistant in one of the faculty member's regularly scheduled classes. Students assume greater responsibility in such areas as leading discussions and analyzing results of tests that have already been graded. Students may not serve as teaching assistants in the same course twice.

Prerequisite: Permission of department

3 credits, S/U grading

**CORRECTIONS TO
2001-2003 UNDERGRADUATE
BULLETIN**

Note: Corrections are underlined.

**Corrections to Approved Majors,
Minors, and Programs**

Physics (PHY)

**Requirements for the Major in Physics (PHY)
Courses in Physics**

PHY 251/252 Modern Physics

**Requirements for the Minor in Physics for
students with a Major in the College of Arts and
Sciences (PHY)**

PHY 251/252 Modern Physics

Corrections to Course Descriptions

**LAN 447 Directed Readings in Uncommonly
Taught Languages**

May be repeated.

Prerequisite: Permission of instructor

1-6 credits

**LHD 301 Human Sexual and Gender Development
Issues**

May be repeated as the topic changes.

PHY 301 Electromagnetic Theory I

MAT 341 is not a corequisite.

RUS 447 Directed Readings

May be repeated.