

## SCHOOL OF CONTINUING EDUCATION AND SUMMER SESSIONS

The School of Continuing Education and Summer Sessions provides a wide variety of educational opportunities beyond the degree-granting programs of the university. These programs serve virtually all age groups in a great variety of formats and time frames. For information about the following programs write B20 Day Hall, Ithaca, New York 14853-2801; call 607/255-4987; e-mail [info@sce.cornell.edu](mailto:info@sce.cornell.edu); or fax 607/255-9697; unless indicated otherwise below. You may also visit us on the Web at <http://www.sce.cornell.edu/>.

### ADMINISTRATION

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### CORNELL UNIVERSITY SUMMER SESSION

The Cornell University Summer Session provides unique and unusually attractive opportunities for study and recreation at a time when the Cornell campus and the Finger Lakes region of central New York are at their loveliest and the Ithaca weather is at its best. Participants may choose from a wide spectrum of courses scheduled during three-, eight-, and six-week sessions. Although admission is open to persons of all ages, the majority of summer session participants are matriculated Cornell students. Classes meet daily and are usually kept small to foster a close association between students and teachers.

### SPECIAL AND PROFESSIONAL PROGRAMS

Intensive learning experiences are presented year-round both for students and for professionals in many fields. Formats include for-credit courses of one to eight weeks and noncredit weekend and weeklong short courses. Programs can also be designed to respond to the needs and interests of corporations, professional societies, and other groups. These programs take place on the Cornell campus, on site, and at other locations worldwide. For information call 607/255-7259; e-mail [sp@sce.cornell.edu](mailto:sp@sce.cornell.edu); or fax 607/255-8942.

### SUMMER COLLEGE PROGRAMS FOR HIGH SCHOOL STUDENTS

High school sophomores, juniors, and seniors attend regular university courses through Cornell University Summer College and may

earn college credit. They also explore career options through specially designed workshops. Students live in residence halls, become familiar with campus life, and attend seminars describing the college admissions process. The program is designed to help ease the transition from high school to college. For information call 607/255-6203; e-mail [sc@sce.cornell.edu](mailto:sc@sce.cornell.edu); or fax 607/255-8942.

### CORNELL'S ADULT UNIVERSITY

Cornell's Adult University (CAU) offers week-long noncredit courses on campus for adults and families during the summer. During the fall, winter, and spring, there are weekend seminars, week-long domestic programs, and international study tours. Developed and led by distinguished members of the Cornell faculty, all programs are inspired by the belief that learning never ends and that one of the roles of a great university is to provide a bridge between traditional formal education and informal, noncredit study. For information, write Cornell's Adult University, 626B Thurston Avenue, Ithaca, New York 14850-2490; e-mail [cau@sce.cornell.edu](mailto:cau@sce.cornell.edu); or call 607/255-6260.

### EXTRAMURAL STUDY

Cornell undergraduate or graduate students whose studies have been interrupted may find it appropriate to resume their studies by taking classes on a part-time basis. Area residents may take courses on a part-time basis by registering as extramural students. Those interested may enroll in almost any course offered in the fall and spring terms if they receive the instructor's written approval. Another offering, the **Visitor's Program**, allows adults to attend classes in many divisions of the university on a space-available basis at a reduced charge. In this program, no credit is given, and no record is kept of attendance or performance. Visitors are required to obtain written permission from the instructor.

### WINTER SESSION

Cornell undergraduate and graduate students, as well as employees and area residents, can earn three to four credits between the fall and spring semesters by enrolling in the winter session. This quiet time on campus allows students to enjoy generally smaller classes and to concentrate on intensive study. Winter-session students may enroll in scheduled courses or design individualized study with a faculty member.

### CONTINUING EDUCATION INFORMATION SERVICE

This service provides free information, counseling, and referral to people who have been out of school for several years and want to resume their education. It also provides information about short courses, workshops, professional updates, and executive programs offered by the university to people inside and outside Cornell.

## SUMMER COURSE ROSTER

The Cornell University Summer Session offers a wide variety of courses. The list that follows includes those courses that are usually offered every summer. The list is not exhaustive; many new courses or courses offered only occasionally are not listed. For complete information, contact the Summer Session Office. The summer session catalog is published in February. A preliminary course roster is available beginning in late November and current course offerings are listed and updated on the Web from November through June.

### Africana Studies

AS&RC 205 African Civilizations and Culture

A program in African languages is also offered. Consult the department for a complete listing.

### Agricultural, Resource, and Managerial Economics

ARME 220 Introduction to Business Management

ARME 221 Financial Accounting

ARME 310 Introductory Statistics

ARME 320 Business Law I

### Anthropology

ANTHR 101-102 Introduction to Anthropology

ANTHR 201 Lost Tribes and Sunken Continents

ANTHR 257 American Indians in Film

### Archaeology

ARKEO 100 Introduction to Archaeology

ARKEO 201 Lost Tribes and Sunken Continents

ARKEO 319 Underwater Archaeology

ARKEO 358 Field Archaeology in Honduras

ARKEO 360 Field Archaeology in Greece

ARKEO 361 Summer Program in Etruscan Archaeology at La Piana

Other field study opportunities are usually available through this department.

### Architecture

ARCH 110 Introduction to Architecture: Design Studio

ARCH 130 An Introduction to Architecture: Lecture Series

ARCH 251 Photography I

ARCH 351 Photography II

Consult the Department of Architecture office for a complete list of summer design offerings.

## Art

- ART 121 Introductory Painting  
 ART 123 Landscape Painting  
 ART 141 Introductory Sculpture  
 ART 151 Drawing I  
 ART 158 Conceptual Drawing  
 ART 159 Life and Still-Life Drawing  
 ART 161 Photography I  
 ART 168 Black-and-White Photography  
 ART 169 Color Photography  
 ART 171-172 Electronic Imaging in Art  
 ART 221 Painting II  
 ART 241 Sculpture II  
 ART 261 Photography II  
 ART 263 Color Photography  
 ART 264 Photo Processes  
 ART 321 Painting III  
 ART 361 Photography III  
 ART 372 Special Topics in Studio Art  
 ART 429-489 Independent Studio

## Asian Studies

- ASIAN 250 Introduction to Asian Religions

## Astronomy

- ASTRO 105 An Introduction to the Universe  
 ASTRO 106 Essential Ideas in Relativity and Cosmology  
 ASTRO 107 An Introduction to the Universe

## Biological Sciences

### General Courses

- BIO G 107-108 General Biology  
 BIO G 200 Special Studies in Biology  
 BIO G 207 Evolution  
 BIO G 208 Drawing the Human Figure  
 BIO G 209 Introduction to Natural-Science Illustration  
 BIO G 467 Seminar in the History of Biology: Evolution, Ethics, and Meaning in Life  
 BIO G 499 Undergraduate Research in Biology

### Biochemistry, Molecular and Cell Biology

- BIOBM 333 Principles of Biochemistry, Lectures  
 BIOBM 432 Survey of Cell Biology

### BIOBM 602 Molecular Biology for Teachers

### Ecology and Evolutionary Biology

- BIOES 261 Ecology and the Environment

### Genetics and Development

- BIOGD 281 Genetics

### Microbiology

- BIOBI 290-291 General Microbiology

### Plant Biology

- BIOPL 245 Plant Biology

## Shoals Marine Laboratory

- BIOSM 160 Oceanography of the Gulf of Maine  
 BIOSM 161 Introduction to Field Marine Science  
 BIOSM 204 Biological Illustration  
 BIOSM 303 Ecology of Marine Fishes  
 BIOSM 308 Marine Microbial Ecology  
 BIOSM 309 Coastal Ecology and Bioclimates  
 BIOSM 329 Ecology of Animal Behavior  
 BIOSM 363 Marine Biology for Teachers  
 BIOSM 364 Field Marine Science  
 BIOSM 365 Underwater Research  
 BIOSM 366 SEA Introduction to Oceanography  
 BIOSM 367 SEA Introduction to Maritime Studies  
 BIOSM 368 SEA Introduction to Nautical Science  
 BIOSM 372 SEA Practical Oceanography  
 BIOSM 374 Field Ornithology  
 BIOSM 402 Marine Pollution  
 BIOSM 409 Ciliophorology  
 BIOSM 413 Adaptations of Marine Organisms  
 BIOSM 418 Tropical Marine Science  
 BIOSM 449 Marine Botany  
 BIOSM 477 Marine Vertebrates  
 BIOSM 499 Undergraduate Research in Biology

## Biology and Society

- B&SOC 322 From Hippocrates to Health Maintenance Organizations: An Introduction to the History of Medicine  
 B&SOC 447 Seminar in the History of Biology: Evolution, Ethics, and Meaning in Life

## Biometry and Statistics

- BTRY 215 Introduction to Statistical Methods  
 BTRY 601 Statistical Methods I

## Chemistry

- CHEM 103 Introduction to General Chemistry  
 CHEM 207-208 General Chemistry  
 CHEM 251 Introduction to Experimental Organic Chemistry  
 CHEM 252 Elementary Experimental Organic Chemistry  
 CHEM 257 Introduction to Organic and Biological Chemistry  
 CHEM 357-358 Introductory Organic Chemistry  
 CHEM 421 Introduction to Inorganic Research  
 CHEM 433 Introduction to Analytical Research  
 CHEM 461 Introduction to Organic Research  
 CHEM 477 Introduction to Research in Physical Chemistry

## City and Regional Planning

- CRP 100 The American City

## Classics

### Classical Civilization

- CLASS 102 Bioscientific Terminology  
 CLASS 223 The Comic Theater  
 CLASS 236 Greek Mythology  
 CLASS 361 Summer Program in Etruscan Archaeology at La Piana

### Greek

- CLASS 104 Intensive Greek

### Latin

- CLASS 107 Intensive Latin  
 CLASS 369 Intensive Medieval Latin Reading

## Communication

- COMM 116 Communication in Social Relationships  
 COMM 120 Contemporary Mass Communication  
 COMM 201 Oral Communication  
 COMM 203 Argumentation and Debate  
 COMM 204 Effective Listening  
 COMM 232 Art of Publication  
 COMM 272 Principles of Public Relations and Advertising  
 COMM 301 Business and Professional Speaking  
 COMM 350 Writing for Magazines  
 COMM 363 Organizational Writing

## Comparative Literature

- COM L 105 The Hero in Literature  
 COM L 202 Great Books  
 COM L 223 The Comic Theater  
 COM L 236 Greek Mythology

## Computer Science

- COM S 099 Fundamental Programming Concepts  
 COM S 100 Introduction to Computer Programming  
 COM S 101 The Computer Age  
 COM S 211 Computers and Programming  
 COM S 222 Introduction to Scientific Computation  
 COM S 410 Data Structures

## Design and Environmental Analysis

- DEA 104 Introduction to Interior Design Studio  
 DEA 150 Introduction to Human-Environment Relations  
 DEA 459 Programming Methods in Design

## Economics

- ECON 101 Introductory Microeconomics  
 ECON 102 Introductory Macroeconomics  
 ECON 105 Introduction to Financial and Management Accounting  
 ECON 206 Economics in International Perspective  
 ECON 309 Environmental Economics  
 ECON 311 Intermediate Microeconomic Theory

- ECON 313 Intermediate Microeconomic Theory  
 ECON 314 Intermediate Macroeconomic Theory  
 ECON 362 International Monetary Theory and Policy  
 ECON 363 International Economics  
 ECON 371 Labor Markets and Income Distribution in Developing Countries

### Education

- EDUC 420 Field Experience  
 EDUC 445 Curriculum Design Workshop  
 EDUC 497 Individual Study in Education  
 EDUC 501 Communication Workshop  
 EDUC 513 Psychology of Human Interaction  
 EDUC 523 Food and Fiber Across the Curriculum  
 EDUC 620 Internship in Education  
 EDUC 621-622 Work-Experience Coordinator Certification Course  
 EDUC 632 Teaching Agricultural, Extension, and Adult Education  
 EDUC 644 Curriculum Theory and Analysis  
 EDUC 694 Special Topics in Education  
 EDUC 800 Master's-Level Thesis Research  
 EDUC 900 Doctoral-Level Thesis Research

### Electrical Engineering

- ELE E 231 Introduction to Digital Systems  
 ELE E 232 Practicum in Digital Systems

### Engineering

#### General Interest Courses

- ENGRG 101 The Computer Age

#### Distribution Courses

- ENGRD 202 Mechanics of Solids  
 ENGRD 203 Dynamics  
 ENGRD 211 Computers and Programming  
 ENGRD 221 Thermodynamics  
 ENGRD 222 Introduction to Scientific Computation  
 ENGRD 231 Introduction to Digital Systems  
 ENGRD 270 Basic Engineering Probability and Statistics

The Engineering Cooperative Program offers a number of other engineering courses. Contact that office for more information.

### English

- ENGL 131 Critical Reading and Writing  
 ENGL 132 The Personal Essay  
 ENGL 280 Creative Writing  
 ENGL 288-289 Expository Writing  
 ENGL 327 Shakespeare  
 ENGL 477 Children's Literature

### English as a Second Language

- ENGLF 101-102 English as a Second Language  
 ENGLF 211 English as a Second Language  
 ENGLB 215 English for Later Bilinguals

### Floriculture and Ornamental Horticulture

- FRDR 210 Sketching in Watercolor  
 HORT 436 Tree Climbing and Arboricultural Skills

### French Literature

- FRLIT 201 Introduction to French Literature

### Geological Sciences

- GEOL 101 Introductory Geological Science  
 GEOL 104 The Sea: An Introduction to Oceanography  
 GEOL 213 Marine and Coastal Geology  
 GEOL 417 Geologic Field Mapping in Argentina  
 GEOL 475 Bioacoustical Oceanography  
 GEOL 491 Undergraduate Research

### Government

- GOVT 111 Introduction to American Government and Politics  
 GOVT 131 Introduction to Comparative Government and Politics  
 GOVT 161 Introduction to Political Philosophy  
 GOVT 181 Introduction to International Relations  
 GOVT 331 The Political Environment of International Business

### History

- HIST 101-102 Introduction to American History  
 HIST 151-152 Introduction to Western Civilization  
 HIST 268 A History of Rome from Republic to Holy City  
 HIST 314 History of American Foreign Policy, 1912 to the Present  
 HIST 340-341 Recent American History  
 HIST 371 World War II in Europe  
 HIST 415 Seminar in the History of Biology: Evolution, Ethics, and Meaning in Life

### History of Art

- ART H 202 Survey of European Art: Renaissance to Modern  
 ART H 261 Introduction to Art History: Modern Art

### Hotel Administration

- H ADM 165 Managerial Communication: Writing Principles and Process  
 H ADM 174 Microcomputing  
 H ADM 210 The Management of Human Resources  
 H ADM 364 Advanced Business Writing  
 H ADM 450 Principles of Real Estate  
 H ADM 651 Principles of Real Estate

### Human Development and Family Studies

- HDFS 115 Human Development  
 HDFS 216 Human Development: Adolescence and Youth  
 HDFS 440 Internship with Young Children

### Human Ecology

- HE 406 Fieldwork in Diversity and Professional Practice: Summer in the City

### Human Service Studies

- HSS 210 The Elements of Helping  
 HSS 315 Human Sexuality  
 HSS 380 Community Mental Health  
 HSS 492 Human Service Processes: Leadership and Community Services

### Industrial and Labor Relations

#### Collective Bargaining, Labor Law, and Labor History

- ILRCB 100 Introduction to U.S. Labor History: Nineteenth Century  
 ILRCB 201/501 Labor and Employment Law  
 ILRCB 300 Collective Bargaining  
 ILRCB 499 Summer Employment Research  
 ILRCB 608 Special Topics

#### Human Resource Studies

- ILRHR 266 Personal Computer Basics  
 ILRHR 468 Human Resources Management Simulation

#### International and Comparative Labor

- ILRIC 635 Labor Markets and Income Distribution in Developing Countries

#### Organizational Behavior

- ILROB 170/520 Introduction to Microorganizational Behavior and Analysis: The Social Psychology of the Workplace

#### Social Statistics

- ILRST 210-211 Statistical Reasoning  
 ILRST 510-511 Statistical Methods for the Social Sciences

### Jewish Studies

- JWST 103 Elementary Modern Hebrew  
 JWST 104 Continuing Modern Hebrew  
 JWST 201-202 Intermediate Modern Hebrew I and II  
 JWST 301-302 Advanced Modern Hebrew I and II

### Landscape Architecture

- LARCH 600 Site Grading Workshop

### Linguistics

- LING 101 Theory and Practice of Linguistics

### Management

- NBA 560 Business Law I  
 NBA 584 Management of the Multinational Corporation

## Marine Science

Consult related department listings for summer offerings in marine science.

## Mathematics

- MATH 101 History of Mathematics  
 MATH 103 Mathematical Explorations  
 MATH 105 Finite Mathematics for Biologists  
 MATH 106 Calculus for Biologists  
 MATH 109 Precalculus Mathematics  
 MATH 111–112 Calculus  
 MATH 171 Statistical Theory and Application in the Real World  
 MATH 192–193 Calculus for Engineers  
 MATH 293–294 Engineering Mathematics

## Mechanical and Aerospace Engineering

- M&AE 221 Thermodynamics

## Modern Languages

### Chinese

- CHIN 160 Introductory Intensive Chinese (Mandarin)  
 CHIN 201–202 Intermediate Chinese

### French

- FRDML 101 French Basic Course I  
 FRDML 203–213 Intermediate Composition and Conversation

### Italian

- ITALA 101 Italian Basic Course I  
 ITALA 123 Continuing Italian

### Japanese

- JAPAN 160 Introductory Intensive Japanese  
 JAPAN 203–204 Intermediate Japanese Conversation  
 JAPAN 403 Teaching of Japanese as a Foreign Language

### Nepali

- NEPAL 160 Intensive Nepali (odd-numbered years)

### Russian

- RUSSA 121–122 Russian Elementary Course

### Sinhala (Sinhalese)

- SINHA 160 Intensive Sinhala (even-numbered years)

### Spanish

- SPAND 101 Spanish Basic Course I  
 SPAND 123 Continuing Spanish  
 SPAND 203 Intermediate Composition and Conversation

### Swahili

- AS&RC 131–132 Swahili

## Music

- MUSIC 105–106 Introduction to Music Theory  
 MUSIC 331 Sage Chapel Choir

## Natural Resources

- NTRES 215 Environmental Disruption and Regulation  
 NTRES 230 Environment and Society  
 NTRES 270 Conservation of Birds  
 NTRES 271 Conservation of Birds Laboratory  
 NTRES 306 Coastal and Oceanic Law and Policy  
 NTRES 417 Wetlands Resources  
 NTRES 471 Management of Terrestrial Habitats

## Near Eastern Studies

- NES 103 Elementary Modern Hebrew  
 NES 104 Continuing Modern Hebrew  
 NES 201–202 Intermediate Modern Hebrew I and II  
 NES 301–302 Advanced Modern Hebrew I and II

## Operations Research and Industrial Engineering

- OR&IE 270 Basic Engineering Probability and Statistics

## Philosophy

- PHIL 101 Introduction to Philosophy  
 PHIL 131 Logic, Evidence, and Argument  
 PHIL 145 Contemporary Moral Issues

## Physical Education

Consult the Physical Education Office for a complete list of summer offerings for credit and recreation.

## Physics

- PHYS 101–102–103 General Physics  
 PHYS 112 Physics I: Mechanics  
 PHYS 202 The World According to Physics—The Way Things Work  
 PHYS 213 Physics II: Heat/Electromagnetism  
 PHYS 214 Physics III: Optics, Waves, and Particles  
 PHYS 400 Informal Advanced Laboratory  
 PHYS 500 Informal Graduate Laboratory  
 PHYS 510 Advanced Experimental Physics  
 PHYS 520 Projects in Experimental Physics

## Psychology

- PSYCH 101 Introduction to Psychology: The Frontiers of Psychological Inquiry  
 PSYCH 123 Introduction to Biopsychology  
 PSYCH 128 Introduction to Psychology: Personality and Social Behavior  
 PSYCH 205 Perception  
 PSYCH 214 Issues in Cognitive Psychology  
 PSYCH 265 Psychology and the Law  
 PSYCH 350 Statistics and Research Design  
 PSYCH 380 Community Mental Health

## Religious Studies

- RELST 101 Understanding the Religions of the World  
 RELST 250 Introduction to Asian Religions

## Rural Sociology

- R SOC 101 Introductory Sociology  
 R SOC 324 Environment and Society  
 R SOC 436 Successful Aging: Issues and Social Policy in the 1990s

## Science and Technology Studies

- S&TS 322 From Hippocrates to Health Maintenance Organizations: An Introduction to the History of Medicine  
 S&TS 447 Seminar in the History of Biology: Evolution, Ethics, and Meaning In Life

## Sociology

- SOC 101 Introduction to Sociology

## Textiles and Apparel

- TXA 114 Introduction to Computer-Aided Design

## Theatre Arts

- THETR 211 Dance Movement Workshop  
 THETR 223 The Comic Theater  
 THETR 287 Summer Acting Workshop

## Theoretical and Applied Mechanics

- T&AM 202 Mechanics of Solids  
 T&AM 203 Dynamics  
 T&AM 293–294 Engineering Mathematics

## Writing

- WRIT 134 An Introduction to Writing in the University