



SUMMER ACADEMY

FOR ADVANCED HIGH SCHOOL STUDENTS

UNIVERSITY OF CALIFORNIA
UCRIVERSIDE

Undergraduate
Education

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Since 1994, the **Summer Academy for Advanced High School Students** at the University of California Riverside has been a unique opportunity for advanced high school students to earn summer college units, engage in college programs, explore college laboratories and research, and interact with top faculty. In the Summer Academy program, students will have the opportunity to earn 4-5 units of college credit (on an official UC transcript), while meeting distinguished faculty and building relationships with fellow students. The Summer Academy is a great opportunity to take advantage of UCR courses, add a unique experience to future college applications, learn about the college admissions process, and attend program events and workshops planned with current high school students in mind. In order **to attend, students must be a current (spring) high school freshman, sophomore or junior with a minimum GPA of 3.5**. Summer Academy students automatically **receive a significant tuition reduction** and some specialized awards may be available via several partner offices at UCR.

Program Benefits

- A fully immersive experience at a public research university
- Dynamic in class synergy with fellow high school students as well as current UCR students
- Interaction and significant face time with expert faculty and scholars
- Special behind the scene experiential tours of campus facilities including laboratories, dormitories, colleges, and more
- Specific, catered programs and experiences with opportunities to hear about future opportunities at UCR from Admissions Counselors, Career Services, Study Abroad, Prestigious Scholarships and Awards, Local, State, and National Internship Opportunities, Financial Aid, and many more!

Summer Academy students primarily take courses offered in Summer Session A – 5 weeks (June 25 – July 30, 2018). Additional options include: Session B - 5 weeks (July 30 – September 1, 2018) if in a high school has a later fall start (after Sept 1), or Session D - 7 weeks (June 25 – August 11, 2018). Students will find courses to meet and challenge their desire to learn. Whether looking for the next set of courses beyond high school offerings, trying courses in an area of special interest, or exploring a possible college major, it can all be found at UCR in the summer.

COURSE OPTIONS

Students are allowed to enroll in any UCR courses during the Summer Sessions, as long they meet all individual course enrollment requirements or prerequisites. To make the course selection process easier, we highly recommend **participants select courses from six general interest areas**, including: 1) Pre-Health Professions, 2) Sciences and Mathematics, 3) Engineering, 4) Social Sciences, 5) Business, and 6) Arts & Humanities. Within each interest area, **a collection of traditional introductory courses has been selected** for students to choose from to help expose students to a more focused area of interest or to a course that is a necessary requirement for a future major in that area. Many of the courses are also general education degree requirements that may be applicable to another areas of study. Some courses may fulfill the [A-G admission](#) or transfer admission criteria – please speak with a UC Admission Counselor for details. **Online or hybrid courses are not recommended for Summer Academy students.**



COURSES AVAILABLE

Students can find the complete course listings online at <http://classes.ucr.edu>. Summer Academy students may enroll in any course at UCR, as long as they meet all placement and prerequisite requirements for the individual course. To see course placement/prerequisite information, search for a course, click on the course title, and course details including prerequisites, additional course fees, and other course requirements or restrictions will be visible.

Once admitted, Summer Academy students may begin registering for courses after May 1st. Please see the [Summer Sessions](#) website for information on the Academic Calendar and fee payment deadlines.

Recommended Courses by Interest Areas

PRE-HEALTH

- BIOL 002 – Cellular Basis of Life
- PHIL 002 – Contemporary Moral Issues
- PHIL 003 – Ethics and the Meaning of Life

SCIENCES AND MATHEMATICS (STEM)

- BIOL 003 – Organisms in their Environment
- CHEM 001A – General Chemistry
- PHYS 037 – The Origins

ENGINEERING (STEM)

- CS 005 – Introduction to Computer Programming

SOCIAL SCIENCES

- POSC 010 – American Politics
- PSYC 001 – Introductory Psychology
- SOC 001 – Introduction to Sociology

BUSINESS

- BUS 010 – Introduction to Business
- ECON 002 – Introduction to Macroeconomics

ARTS AND HUMANITIES

- ANTH 001 – Cultural Anthropology
- ART 001 – Beginning Draw & Design
- HIST 010 – World History: Prehistory to 1500
- TFDP 050 – Public Speaking

Additional Course Recommendations

- ANTH 002 – Biological Anthropology
- ART 002 – Beginning Paint & Design
- BUS 001 – Personal Finance
- CRWT 056 – Introduction to Creative Writing
- CS 006 – Introduction to the World Wide Web
- CS 008 – Introduction to Computing
- DNCE 005 – Introduction to Dance
- ENSC 001 – Introduction to Environmental Science: Natural Resources
- ECON 003 – Introduction to Microeconomics
- ETST 001 – Race and Ethnicity: Introduction
- GEO 001 – The Earth Crust and Interior
- GEO 002 – Earth's Climate Through Time
- GSST 001 – Gender and Sexuality
- PSYC 002 – Introductory Psychology
- TFDP 010 – Introduction to Acting



Course Descriptions

ANTH 001 – Cultural Anthropology. Explores the basic contributions of anthropology to the understanding of human behavior and culture and the explanation of similarities and differences among human societies. Addresses the relevance of materials drawn from tribal and peasant culture to problems of the modern world. Stresses the application of anthropological methods to research problems.

ANTH 002 – Biological Anthropology. A survey of past and contemporary human variation and evolution considered from the perspective of the fossil record, inferences from nonhuman primate biology and social behavior, and the forces of evolution.

ART 001 – Beginning Draw & Design. Introduction to the materials, techniques, structure and expressive properties of drawing and design. Includes lectures, studio exercises and outside assignments.

ART 002 – Beginning Paint & Design. Introductory course in the media, techniques, structural and expressive properties of painting and design. Includes lectures, studio exercises and outside assignments.

BIOL 002 – Cellular Basis of Life. An introduction to the fundamentals of life processes at the cellular level. Topics include cell structure, chemical composition, metabolism, reproduction, genetics, and development with emphasis on humans. Not recommended for natural science majors.

BIOL 003 – Organisms in their Environment. An introduction to the physiology, ecology, and evolution of living organisms with emphasis on humans. Not recommended for natural science majors. Either BIOL 002 or BIOL 003 may be taken as a breadth requirement in biology; together they provide a general introduction to the field of biology.

BUS 001 – Personal Finance. Provides students with tools necessary to analyze the decision to finance their UCR education with student loans. Topics include personal budgets, student loans, interest rates, career planning, auto and health insurance, and other issues related to financing higher education.

BUS 010 – Introduction to Business. Provides an overview of the field of business administration. Explores business goals and strategies, functional areas of business and their integration in policy and decision making, social responsibility, computers in business, and business trends and challenges including the international dimension.

CHEM 001A – General Chemistry. An introduction to the basic principles of chemistry.

CRWT 056 – Introduction to Creative Writing. An introduction to the craft of creative writing. Focuses on the elements of a number of genres, including poetry, fiction, nonfiction, journalism, drama, and the graphic novel.

CS 005 – Introduction to Computer Programming. An introduction to computer programming for non-engineering and non-science majors and for students considering taking CS 010 but needing additional preparation. Topics include the history of computing, basic computer operation, the notion of an algorithm, and programming constructs such as variables, expressions, input/output, branches, loops, functions, parameters, arrays, and strings.

CS 008 – Introduction to Computing. Includes operating system basics (Windows and Unix), word processing, spreadsheets, databases (e.g., Access), e-mail, the Internet, and the World Wide Web. Designed for students not majoring in computer science, engineering, mathematics, or science.

CS 010 – Introduction to Computer Science for Science, Math and Engineering 1. Examination Covers problem solving through structured programming of algorithms on computers using the C++ object-oriented language. Includes variables, expressions, input/output (I/O), branches, loops, functions, parameters, arrays, strings, file I/O, and classes. Also covers software design, testing, and debugging.

DNCE 005 – Introduction to Dance. As a survey of approaches to dancing and dance making, this course introduces students to dance technique, performance, and composition as fundamental components in the art of dance. Students will cultivate the ability to



enact and remember patterns of rhythm, effort, and visual design in movement and will become acquainted with various procedures for organizing movement. Especially designed for students with no experience in dance.

ECON 002 – Introduction to Macroeconomics. An introduction to the study of the economic system from a macro, or aggregate, perspective. Includes analysis of unemployment, inflation, and the impact of government policies on the level of economic activity.

ECON 003 – Introduction to Microeconomics. An introduction to the study of the economic system from the micro, or individual decision-makers, perspective. Includes analysis of competition, monopoly, and the distribution of income.

ENSC 001 – Introduction to Environmental Science: Natural Resources. An introduction to environmental science, focusing on natural resource description, management, and conservation. Topics covered include ecosystem characteristics and function; material and energy flows; population dynamics and influence of population on the environment; energy resources and conservation; and mineral and soil resources and their management.

ETST 001 – Race and Ethnicity: Introduction. Will introduce students to major concepts and controversial issues in the study of race and ethnicity and shall provide a general overview of topics to be covered in more specialized Ethnic Studies courses.

GEO 001 – The Earth Crust and Interior. An introduction to the physical development of the Earth. Emphasis will be on Earth materials (rocks and minerals), processes (weathering, erosion, mountain building), structures (folds and faults), and current theories regarding the Earth's crust and interior.

HIST 010 – World History: Prehistory to 1500. A comparative introduction to the development of cultures in Europe, the Americas, Africa, and Asia. Addresses the origins of world civilizations; the ancient and classical periods from a global perspective; and the evolution of complex political systems throughout the post-Classical world. Includes a comparative discussion of Western and Eastern world religions.

PHIL 003 – Ethics and the Meaning of Life. Approaches one of the basic questions of value: how should one live? Covers classical and contemporary discussions of issues such as the human good, human virtue, the role of pleasure and happiness, egoism and altruism, duty, the relativity and objectivity of value, the meaning of life, death, autonomy, integrity, and conscience.

PHYS 037 – The Origins. Explores the most fundamental questions in cosmology, physics, and chemical sciences through their origins. Topics include the origin of the Universe, origin of matter, first generation of stars and galaxies, origin of chemical elements, chemistry of life, and astrobiology.

PSYC 001 – Introductory Psychology. An introduction to psychology as an experimental science. Emphasizes topics in cognitive (including learning, memory, sensation, perception), comparative, and physiological psychology.

PSYC 002 – Introductory Psychology. Emphasizes topics in developmental psychology, tests and measurements, social psychology, personality, and abnormal behavior.

SOC 001 – Introduction to Sociology. Covers the basic concepts and theories relating to the study of humans as participants in group life, analysis of culture, social institutions, personality development, and processes of social interaction.

TFDP 010 – Introduction to Acting. Introduction to acting in theatre, film, television, and performance art. Through exercises, lectures, videos, and on-site visits, explores the work of actors and their collaborations with other artists in historical and contemporary settings.

TFDP 050 – Public Speaking. Covers the principles and practice of effective speech composition and delivery. Provides the communicative skills essential in professional careers and community life.

For additional course descriptions and summer course offerings please visit: classes.ucr.edu.



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