

**UNIVERSITY OF CALIFORNIA, IRVINE**  
**DIVISION OF CONTINUING EDUCATION**

BERKELEY • DAVIS • IRVINE • LOS ANGELES • MERCED • RIVERSIDE • SAN DIEGO • SAN FRANCISCO



SANTA BARBARA • SANTA CRUZ

**Experience University Research**

Tel: 1-949-824-9061

Fax: 1-949-824-8065

Email: [mcai2@uci.edu](mailto:mcai2@uci.edu)

P.O. Box 6050

Irvine, California 92616-6050, U.S.A.

**2019 Experience University Research**  
**HIGH SCHOOL PROGRAM OVERVIEW**  
**JULY 14 – 27, 2019**

**PROGRAM DESCRIPTION**

Experience University Research (EUR) for High School Students is an academically challenging and culturally immersive program designed to help highly motivated students take advantage of a Top 10 university campus, building practical skills and gaining invaluable experience as they prepare to apply to college. This EUR Package is ideal for international high school students over the age of 15 with high English proficiency (iBT TOEFL score of 60 recommended). EUR Electives are open to both international and domestic students.

**EUR HIGH SCHOOL DATES & FEES (I-20 not required)**

Arrival/Housing Check-In:	July 14, 2019
Dates of Instruction:	July 15-26, 2019
Departure/Housing Checkout:	July 27, 2019
Program Fee:	\$4,000 per student**
Housing Deposit:	\$200 per student <i>(non-refundable, applied toward Program Fee)</i>
Activity Package Fee:	\$220 per student

Included with Program Fee:

- 30+ Hours of Academic Instruction (includes one elective course)
- 15+ Hours of Academic-Related Activities
- Shared Dorm Room
- Airport Transfers
- Health Insurance
- UC Admissions and Majors Presentations
- Campus and Lab Tours
- Conversation Partners
- Welcome and Farewell Lunches
- Grade Reports and UCI Certificates of Participation

Included with Activity Package Fee:

- Universal Studios or Disneyland
- Los Angeles/Shopping Tour
- Beach Trip
- Social and Sport Mixers

\*Some Electives may require an additional materials fee.

All fees are due 30 days prior to program start date.

Course schedules, instructors, and availability subject to change.

Refund/Cancellation policy available at:

<http://ip.ce.uci.edu/tuition-and-fees/payment-policies-deadlines/>

## **EUR HIGH SCHOOL CORE COURSES (required)**

### **Academic Presentation Skills (1 unit)**

The goal of this course is to prepare advanced level students for the university setting, particularly in relation to their *chosen fields of study*. In this course, students will review academic vocabulary, practice effective note-taking strategies, and focus on speaking and presenting their ideas clearly. Listening passages will include academic lectures, authentic English-language reports and documentaries. Examples of learning activities in this course include class discussions, individual and group presentations, listening logs, listening quizzes, and leading discussion groups.

**Instructor: Emily Ellis, M.A.**

**Schedule: M-F, times vary**

### **Research Methodology (1 unit)**

The goal of this course is to prepare advanced level students for academic writing at the university level, particularly in relation to their *chosen fields of study*. Academic writing focuses on the academic essay, with special emphasis on support (summarizing, paraphrasing, quoting, and documenting sources, format). An on-going focus is on skills required for a 3-5 page research paper with appropriate citations and formal bibliography adhering to APA format.

**Instructor: Rachel Fernandez, M.A.**

**Schedule: M-F, times vary**

## **EUR HIGH SCHOOL ELECTIVE COURSES (choice of one)**

### **Social Ecology: Intro Environmental Analysis and Design (1 unit)**

The goal of this course is to explore science-driven solutions to major global challenges. Students will begin to investigate such topics as why access to clean water is so difficult both globally and locally, what can be done about it, and how to transcend the negative impacts of a changing environment. In doing so, students will learn from real-life examples and be given the opportunity to apply creative thinking to shed new light in how to address environmental challenges.

**Instructor: John Whiteley, Ed.D**

**Schedule: TBD**

**Prerequisites: none**

**Materials Fee: \$0**

### **Engineering: Intro to Designing and Integrating IoT Devices (1 unit)**

The goal of this course is to teach students to use Raspberry Pi single-board computers in order to design and develop fun and practical IoT devices while learning programming and computer hardware. In addition, students will learn how to set up the Raspberry Pi environment and how to use Python-based IDE (integrated development environments) for the Raspberry Pi. In this course, students will use a kit to create an IoT device and build and test a system using a Raspberry Pi.

**Instructor: Saleem M. Yamani, M.S.**

**Schedule: TBD**

**Prerequisites: none**

**Materials Fee: \$150**

### **Business Project Management (1 unit)**

The course will provide an overview of the basic knowledge necessary to initiate, plan and execute a research-based project. Classes are interactive and involve the participants in creating the necessary actions and documentation to plan and act on a multi-functional research and development type project. Learning objectives are to learn the standard and universal concepts regarding planning and execution of R and D type projects and to practice and develop the necessary information and put them into the standard project documentation.

**Instructor: Martin Wartenberg, M.S., MBA**

**Schedule: TBD**

**Prerequisites: none**

**Materials Fee: \$0**

### **Design Thinking, Innovation, and Entrepreneurship (1 unit)**

Imagining innovative solutions to complex problems is a critical skill for today's workforce. In this course, tenets of design thinking and innovation methodologies will be practically applied to a variety of challenges across a broad array of industries. Students will learn mind-opening techniques to recognize hidden opportunities, better empathize with customers, and rapidly test prototypes to minimize the time required to bring an innovation to market. In addition, students will utilize entrepreneurial skills to launch their own ideas.

**Instructor: Christopher A. Najera, Ed.D**

**Schedule: TBD**

**Prerequisites: none**

**Materials Fee: \$0**

### **Overview of Esports (1 units)**

Go on a journey through the history of Esports and gain vantage points from developers, athletes, fans, sponsors and media. Examine relationships in the Esports communities and understand how their different roles affect each other. Explore Esports from behind the scenes and learn what it means to be involved in Esports. Become familiar with the structure of common Esports organizations and build the groundwork for an understanding of the Esports industry.

**Instructor: Henry Ngo**

**Schedule: TBD**

**Prerequisites: none**

**Materials Fee: \$0**

## INSTRUCTOR BIOGRAPHIES

### **John Whiteley, Ed.D, Professor of Social Ecology, UCI**

John Whiteley earned his Ed.D. at Harvard University and has taught at UC Irvine for over 40 years. He is currently Professor of Environmental Health, Science, and Policy at the School of Social Ecology at UC Irvine. His research focuses on the moral development of late adolescence to early adult development and the social ecology of peace. His publications include *Water, Place, and Equity* (2009) and *Quest for Peace: An Introduction* (1986). He has lead several initiatives for increasing global cooperation, local equality, and sustainability in local and global policies.

### **Saleem M. Yamani, M.S., Firmware Engineering Manager, Western Digital**

Saleem M. Yamani has more than 20 years' experience in the embedded software engineering field. He has worked in design, and implementation of embedded software programming in various high tech industries, which include Computer, Networking and Hard Disk Drives. He has taught C programming language at Saddleback College for 2 years. Currently he has been teaching Embedded System courses at UCI Division of Continuing Education for past 6 years.

### **Martin Wartenberg, BSEE, MSEE, MBA, Licensed Professional Engineer (P.E.)**

Martin Wartenberg has over 30 years in High Technology Companies in every position from Engineer to Vice President Research and Development and Company Senior Executive (CEO, COO). Martin has taught Project Management, Product Development, Creativity and Innovation at UCI, UCSD and UCSC. He has taught and consulted with companies in Europe, Asia and South America. His experience included; New Product Development, Medical Devices and Instrumentation and Oil Field Instrumentation as well as both Military and Commercial Aerospace. He is currently working with UCI delivering project management courses in the International Accelerated Program as well as delivering classes to companies in the United States and China.

### **Christopher A. Najera, Ed.D, Director of Business Process Innovation, Willdan Group, Inc.**

Christopher A. Najera is a technology and business leader with more than a decade of hands-on experience shaping the creation and implementation of information technology strategies, architectures, and infrastructures within enterprise environments. Dr. Najera leverages technology to help practitioners, at all levels, advance the objectives of the enterprise in new and creative ways. His professional background includes leadership, strategic planning, project and resource management, team-building, and technical development. His love of learning, life, and adventure has led him on many different paths, including that of a university professor, and most currently, the Director of Business Process Innovation for Willdan Group Inc.

### **Emily Ellis, M.A., Instructor, UCI Division of Continuing Education**

Emily Ellis has been happily teaching languages for the last nine years. She taught both Spanish and English at the University of Denver and Colorado State University. Emily spent extensive time in Spain as a Fulbright English language assistant in Madrid and as a coordinator of a study abroad program in Barcelona. She holds two master's degrees, one in TESOL and the other in Spanish, both from Colorado State University.

### **Rachel Fernandez, M.A., Instructor, UCI Division of Continuing Education**

Rachel Fernandez has over 10 years of experience teaching Spanish at Southern California high schools and at the community college level. In addition, she has many years of experience teaching English as a Second Language in Madrid, Spain, and as a full-time teacher in UC Irvine Division of Continuing Education's International Programs unit. Ms. Fernandez is also a skilled teacher-trainer, teaching in IP's TEFL Certificate programs.