UC Irvine Extension

Jumpstart Your Career

Life Science Programs

University of California - Irvine
You’ve worked hard to get where you are. Now you can further your success with a Life Science Certificate at University of California, Irvine Extension. Our courses teach you the latest regulatory, clinical, and medical product development practices needed to develop safe and effective products for regulatory approval and commercialization.

Why Take Classes at UC Irvine Extension

- **Quality of Education** Courses at Extension meet the high quality standards set by the University of California. Taught by subject matter experts, you can rest assured that the training you receive is relevant and up to date with the latest developments in the industry.
- **Approved Certificate Program** A certificate is one of the best ways that a life science professional can demonstrate their knowledge and abilities to ensure the development of safe and effective medical products for regulatory approval and commercialization.
- **Classroom courses** available at the UC Irvine campus and the UC Irvine Learning Center.
- **Online** Skip the commute and take our courses online at work, home or anywhere there is a high speed internet connection.

**Program Offerings:**

- **Clinical Trials: Medical Device and Drug Development Certificate Program**
  Demonstrating the effectiveness and safety of new medical products is a critical part of the medical product development process. This program provides comprehensive knowledge of coordinating, monitoring and managing a clinical trial within a framework of good clinical practices and regulatory requirements. An internship course provides an invaluable capstone experience for the program.

- **Medical Product Development**
  Emerging technologies, ever-changing regulations, and increased competition create many challenges for the medical product industry. This program offers a comprehensive professional learning experience in the successful design, development and delivery of medical devices, pharmaceuticals, and other biomedical products. The curriculum addresses regulatory approval, compliance, quality, global market trends, and product life-cycle management.

- **Medical Systems Engineering Specialized Studies**
  This program addresses the application of engineering principles to study and develop biomedical solutions for the medical care of patients. In this program students will gain a fundamental understanding of biomedical engineering, the knowledge needed to evaluate and describe biomedical applications, and engineering analysis to develop conceptual product designs.

- **Regulatory Affairs Management Specialized Studies**
  Getting timely FDA approval, so products can effectively get to market, is the function of a Regulatory Affairs professional. This program is designed to provide regulatory professionals a core competency in managing the regulatory process, FDA approval process, and an overall understanding of the medical product development life-cycle. Embedded applications can be found in consumer electronics, medical devices, and commercial and military applications.

- **Clinical Laboratory Science/Medical Technology (CLS/MT) Training Program**
  The Clinical Laboratory Science/Medical Technology (CLS/MT) Training Program is a full-time, one-year educational program that leads to a career in diagnostic laboratory medicine. In the learning environments of the University of California Irvine Medical Center and its clinical affiliates, participants acquire the academic knowledge, technical skills, and critical thinking experiences necessary to become proficient healthcare professionals. Participants put their scientific knowledge into practice, and are prepared to perform laboratory procedures related to patient diagnosis and treatment. For detailed requirements and application materials, please contact Laura Ogata, Program Director at (714) 456-6305 or logata@uci.edu.

Graduates from UC Irvine Extension’s Medical Product Development or Clinical Trials programs are eligible for course transfer credit to Keck Graduate Institute’s Masters of Bioscience program, or Northeastern University’s Master of Regulatory Affairs program.

For More Information Call: (949) 824-5380
www.extension.uci.edu/certificates/life_sciences/rmelan@uci.edu
Application of Good Clinical Practices | R | E
Applied Anatomy and Physiology for Clinical Studies | E | E | E | P
Biomedical Business & Legal Management Essentials | E | E | E | E | R
Biomedical Instrumentation: Detection, Measurement and Monitoring of Physiological Signals | R | E
Cardiovascular-Pulmonary Physiology & Engineering: | R | E
Drugs & Devices | E | E
Clinical Data Management | E
Clinical Trials Internship | E | E
Clinical Trials Project Management | E | E
CMC: Chemistry, Manufacturing, and Controls | E | E
Computer-Aided Biomedical Modeling, Simulation and Analysis | R | E
Design of Experiments for Superior Product and Process Performance | E | R
Fundamentals of Clinical Trials | R | E | E
Fundamentals of Electronic Clinical Trials | E | E | E
Good Laboratory Practices | E | E
Human Subjects Safety in Clinical Trials | E | R
Implementation of Statistics in Clinical Trials | R | E | R
Intellectual Property Law for the High Technology Industry | R | E | E
Medical Device Design and Evaluation | E | R
Medical Device Risk Management | E
Medical Product Crisis Management | R
Medical Product Life-Cycle Management | R | R | R | E
Medical Product Manufacturing | E
Medical Product Marketing | R | E
Medical Product Quality Systems | E | R
Process Validation for Medical Product Development | E
Regulatory Affairs for Post-Market Approval | R | E | R
Regulatory Affairs Planning and Management: Concept Review and Evaluation | R | R | R
Regulatory Requirements for Medical Devices | R | R | R
Regulatory Requirements for Pharmaceutical Products | R | R | R | R
Software-Controlled Medical Devices: Software Engineering and Compliance | E | R | E | R

R = Required Courses  E = Elective Courses  P = Prerequisite
JUMPSTART YOUR LIFE SCIENCE CAREER

Professional Development in:

- Clinical Trials: Medical Device and Drug Development
- Medical Product Development
- Medical Systems Engineering
- Regulatory Affairs Management
- Clinical Laboratory Science/Medical Technology

To Enroll:
(949) 824-5414
www.extension.uci.edu

UCIrvine | Extension
For more information:
www.extension.uci.edu/certificates/engineering/
rcrodrig@uci.edu
P.O. Box 6050 • Irvine, CA 92616-6050