INDEPENDENT LEARNER

Course Guide

CITI Program's independent learner courses are intended to provide access to individuals not affiliated with a subscribing organization or those who have special content needs.

Access to these courses is available upon paying the applicable fees for each course. Course fees start at $50 USD/learner.

This guide provides a listing of each available course including a course description, module requirements, and module identification numbers. For module descriptions and continuing education (CE) eligibility, please see the **Course Catalogs**.

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Animal Care and Use (ACU)

ACU Basic Courses

This section presents the basic ACU courses available to independent learners. For module descriptions, see the **ACU Catalog.**

Working with the IACUC

This course is intended for laboratory research personnel who will write animal-use protocols for review by an Institutional Animal Care and Use Committee (IACUC) member or who will handle animals under such protocols. It provides basic information regarding the U.S. regulations for protection of animal subjects used in research, teaching, and testing. It describes the sources and applicability of regulations governing animals in these uses, as well as the role, authority, and composition of the IACUC, the types of IACUC review, and the items of information required for the review. It discusses animal surgery, blood sample collection, antibody production (this is discussed specifically in the *Antibody Production in Animals* module), and euthanasia. General discussions are also provided for requirements for personnel training and experience, and occupational health and safety. Recommendations for housing rodents, exercising dogs, enriching the environment of primates, and using human patient care areas for animals are provided. Finally, there is a discussion of the requirements for making changes in a project involving animals and the procedures for reporting inappropriate use of animals.

Learners must complete 9 required modules with an average score of 80 percent on all quizzes to earn a completion report. Eight supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Working with the IACUC: Introduction	Required	17660 (English)
About the IACUC	Required	17661 (English)
Federal Laws, Policies, and Guidelines	Required	17662 (English)
Planning Research and Completing the Protocol Form	Required	17663 (English)
Procedures: Surgery, Antibody Production, and Blood Collection	Required	17664 (English)
Personnel and Their Welfare	Required	17665 (English)
Special Animal Welfare Considerations	Required	17666 (English)
Making Changes to an Approved Animal Use Protocol	Required	17667 (English)
Reporting Animal Use Concerns	Required	17668 (English)
Aseptic Surgery	Supplemental	12840 (English)
Antibody Production in Animals	Supplemental	13325 (English)

Essentials for IACUC Members

This course is intended for persons who are members of an Institutional Animal Care and Use Committee (IACUC). It assumes the user is already familiar with the content of the *Working with the IACUC* course, and it delves into the IACUC's responsibilities, authority, membership, and relationship to the institutional officer (IO). It discusses the review of animal-use protocols and the required semi-annual program review and facilities inspection. Finally, the procedures for investigating allegations of improper animal care and use are discussed.

Learners must complete all 15 required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Note: This course will be significantly updated on 9 October 2018. Learn more.

Module Title	Recommended Use	ID (Language)
Introduction to Essentials for IACUC Members	Required	1833 (English)
Responsibilities of the IACUC and IACUC Members	Required	1834 (English)
The Members of the IACUC	Required	1835 (English)
The IACUC, the CEO, and the IO	Required	1836 (English)
Authority of the IACUC	Required	1837 (English)
Conducting IACUC Business—The Quorum	Required	1838 (English)
Procedures for Reviewing Protocol Forms	Required	1839 (English)
Outcomes of Animal Protocol Reviews	Required	1840 (English)
The Types of Protocol Reviews	Required	1841 (English)
Documenting IACUC Actions	Required	1842 (English)
The IACUC Semi-Annual Evaluation	Required	1843 (English)
Performing the Facility Inspection and the Program Review	Required	1844 (English)
Identifying, Documenting, and Correcting Deficiencies	Required	1845 (English)
Investigating Allegations of Improper Animal Care or Use	Required	1846 (English)
Maintaining the Public Trust	Required	1847 (English)

IACUC Community Member

The *IACUC Community Member* course is intended for community representatives (non-scientific and/or non-affiliated members) within an Institutional Animal Care and Use Committee (IACUC). Community representatives should take this course, not the *Essentials for IACUC Members* course, as it is specifically designed for them. The course covers ethics, regulations and the IACUC, IACUC basics, Full-Committee Review (FCR) and Designated Member Review (DMR), and other responsibilities as well as additional tips for IACUC community members.

Learners must complete five required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Ethics, Regulations, and the IACUC	Required	15167 (English)
IACUC Basics	Required	15169 (English)
Full-committee Review (FCR) and Designated Member Review (DMR)	Required	15170 (English)
Other Responsibilities of IACUC Members	Required	15171 (English)
Additional Tips for Community Members	Required	15172 (English)

Post-Procedure Care of Mice and Rats in Research: Minimizing Pain and Distress

This course provides information on how to minimize pain and distress in mice and rats during and after experimental procedures for personnel who work with these animals. It is assumed that the user has already completed the *Working with the IACUC* course. This course provides training in the detection and monitoring signs of pain in animals. It discusses the use of animal appearance and behavior, physical condition, and body weight in the monitoring process. The role of body temperature and fluid, and electrolyte balance in animal welfare are also discussed. Particular attention is paid to the growth of tumors in the production of pain and distress. Of course, there is a discussion of the alleviation of pain and distress in the post-procedure animal.

Learners must complete 14 required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Post-Procedure Care of Mice and Rats in Research: Minimizing Pain and Distress	Required	1868 (English)
Investigator Responsibility	Required	1869 (English)
Minimizing Sources of Nonexperimental Variation	Required	1870 (English)
Systematically Monitoring for Pain and Distress	Required	1871 (English)
Detecting Clinical Signs of Pain and Distress	Required	1872 (English)
Appearance and Behavior	Required	1873 (English)
Physical Exam for Clinical Condition	Required	1874 (English)
Body Weight	Required	1875 (English)
Fluid and Electrolyte Balance	Required	1876 (English)
Body Temperature	Required	1877 (English)
Tumors	Required	1878 (English)
Alleviation of Pain and Distress	Required	1879 (English)
Documentation of Post-Procedure Care	Required	1880 (English)
Summary	Required	1881 (English)

Wildlife Research

This course is intended for persons who study wildlife in the field or in captivity, and for those who oversee or review protocols for wildlife research. It describes the types of field studies, methods of animal capture, principles and methods of restraint, animal marking, animal transportation and housing, maintenance of wildlife in captivity, translocation and release, animal surgery, blood sample collection, recognition and management of pain, and euthanasia. This course is not intended as a substitute for the *Working with the IACUC* course.

Learners must complete five required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Wildlife Research Course	Required	16308 (English)
Oversight, Compliance, and Training	Required	16309 (English)
Permits, Pain and Distress Categories, Transportation, and Housing	Required	16310 (English)
Conducting Field Research and Teaching Studies	Required	16311 (English)
Research Procedures, Recognizing and Managing Pain, and Release	Required	16312 (English)

Post-Approval Monitoring (PAM)

This single-module course is intended for anyone involved in post-approval monitoring, such as IACUC members and staff, researchers, and research staff. It provides detailed information on the regulations and guidelines pertaining to PAM programs, actions that constitute PAM, and the "dos and don'ts" of conducting a PAM visit.

Learners must complete one required modules with a score of at least 80 percent on the quiz to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Post-Approval Monitoring (PAM)	Required	16416 (English)

Institutional Official: Animal Care and Use Course

The course below is intended for individuals who are, or will be, acting as the institutional official (IO) responsible for academic and commercial animal care and use programs. It provides an introduction to the role and responsibilities of the IO as guided by federal regulations, as well as the various institutional policies and procedures as set forth by the organization in which the animal care and use program is situated. The course describes the role of the IO as an organizational leader and as a critical representative of the organization's animal research program.

Learners must complete four required modules with a score of at least 80 percent on the quiz to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to the Challenges of Being an IO: Animal Care and Use Program	Required	16644 (English)
What the IO is Required to Know	Required	16645 (English)
IO Responsibilities	Required	16646 (English)
What Works: A Word from Experienced IOs	Required	16647 (English)

IACUC Chair Course

The course below is intended for individuals who are, or will be, acting as an Institutional Animal Care and Use Committee (IACUC) Chair member. It provides an introduction to the roles and responsibilities of the IACUC Chair as guided by Animal Welfare Regulations (AWR) and Public Health Service Policy (PHS Policy). The course also addresses the IACUC Chair's role responsibilities IACUC meetings, as well as additional duties outside of IACUC meetings.

Learners must complete three required modules with a score of at least 80 percent on the quiz to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Roles and Responsibilities of an IACUC Chair	Required	16954 (English)
The IACUC Chair's Meeting Responsibilities	Required	16955 (English)
The IACUC Chair's Role Outside the IACUC Meeting	Required	16956 (English)

ACU Refresher Courses

This section presents the ACU refresher courses available to independent learners. For module descriptions, see the **ACU Catalog**.

Working with the IACUC – Refresher

Learners who have completed the *Working with the IACUC* course and would like to take a refresher are intended to use this course. It offers reviews of many of the topics covered in the basic course, but adds additional depth, expanding on points that are often sources of concerns and questions by Institutional Animal Care and Use Committees (IACUCs) and animal users.

Learners must complete two required modules and at least five elective modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Working with the IACUC – Refresher Course	Required	13780 (English)
The Regulators	Required	13781 (English)
Responsibility	Required	13782 (English)
Justifying Animal Use	Required	13783 (English)
Consider Alternatives	Required	13784 (English)
Duplication	Required	13785 (English)
Training	Required	13786 (English)
Housing and Husbandry	Required	13787 (English)
Monitoring and Controlling Pain and Distress	Required	13788 (English)
Surgery	Required	13789 (English)
Post-Procedure Monitoring and Care	Required	13790 (English)
Endpoints	Required	13791 (English)
Euthanasia	Required	13792 (English)
Occupational Health and Safety	Required	13793 (English)
Final Words	Required	13846 (English)
References	Required	13794 (English)

IACUC Member Refresher Case Studies

Learners who have completed the *Essentials for IACUC Members* course and would like to take a refresher are intended to use this course. The case studies present learners with various scenarios depicting "real-life" problems encountered by IACUCs and typically present both sides of contentious issues. Learners are then asked to select actions that the IACUC or principal investigator could take. This new approach to refresher training is intended to form an interesting re-encounter of issues for the learner.

Learners must complete at least three elective modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
ACU Program Basics		
IACUC Composition	Elective	15508 (English)
Qualification of Personnel Managing Analgesics	Elective	15518 (English)
Occupational Health	Elective	15526 (English)
Managing SOPs	Elective	15530 (English)
Disaster Planning	Elective	15523 (English)
USDA Pain Classification	Elective	15519 (English)
The Institutional Official's (IO's) Role And Authority Limits	Elective	17002 (English)
Protocol Review Issues		
Protocol Amendments and Modifications	Elective	15516 (English)
Grant Reviews	Elective	15520 (English)
Inter-related Protocols	Elective	15524 (English)
Protocol Approval Expiration	Elective	15528 (English)
Use of Ad Hoc Consultants in Protocol Review/ Confidentiality Issues	Elective	15529 (English)
Using the VVC Process for Review of Select Significant Changes – "XYZ Therapeutics"	Elective	16997 (English)
Using the VVC Process for Review of Select Significant Changes – "Great Eastern University"	Elective	16998 (English)
Reporting and Euthanasia with Wildlife	Elective	16999 (English)
Measuring Pain	Elective	17001 (English)
Establishing a New Animal Model	Elective	17003 (English)
Rationale for New Model Development	Elective	17004 (English)
Investigating Noncompliance		
Tackling Investigator Noncompliance	Elective	15514 (English)
Investigating Allegations of Noncompliance, Whistle-Blower Protection, and Due Process	Elective	15522 (English)
Investigations of Noncompliance	Elective	14948 (English)
Unapproved Intervention	Elective	15527 (English)
No Harm, No Foul	Elective	17058 (English)
Shared Institutional Goals of Animal Health & Welfare	Elective	17059 (English)

Postapproval Management		
Semiannual Facility Inspections	Elective	15515 (English)
Managing Animals after Protocol Expiration	Elective	15517 (English)
Lab Inspection/Compliance	Elective	15521 (English)
Trust, But Verify	Elective	17000 (English)

Animal-Specific Courses

This section presents all animal-specific ACU courses available to independent learners. For module descriptions, see the **ACU Catalog**.

Working with Amphibians in Research Settings

This course addresses issues in the use of amphibians in research.

Learners must complete five required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Working with Amphibians in Research Settings	Required	2077 (English)
Taxonomy, Research Mandates, and Occupational Health Issues	Required	2078 (English)
Alternatives Search, Housing, Source, and Acclimation and Quarantine	Required	2081 (English)
Biology, Pain and Distress, Handling, and Pain Relief	Required	2085 (English)
Surgery, Supportive Care and Monitoring, Euthanasia, and References	Required	2089 (English)

Working with Cats in Research Settings

This course addresses issues in the use of cats in research.

Learners must complete six required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Working with Cats in Research Settings	Required	1883 (English)
Research Mandates and Occupational Health Issues	Required	1884 (English)
Alternatives Search, Humane Standards, Housing, Source, and Acclimation and Quarantine	Required	1886 (English)
Detecting Pain and Distress, and Biological Features	Required	1891 (English)
Injections, Blood Collection, and Pain Relief	Required	1893 (English)
Surgery, Supportive Care and Monitoring, Euthanasia, and References	Required	1895 (English)

Working with Cattle in Agricultural Research Settings

This course addresses issues in the use of cattle in agricultural research settings.

Learners must complete six required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Working with Cattle in Agricultural Research Settings	Required	16939 (English)
Research Mandates and Animal Care	Required	16940 (English)
Biological Features	Required	16941 (English)
Veterinary Care - Part I	Required	16942 (English)
Veterinary Care – Part II	Required	16980 (English)
Occupational Health Hazards and Zoonoses	Required	16943 (English)

Working with Dogs in Research Settings

This course addresses issues in the use of dogs in research.

Learners must complete six required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Working with Dogs in Research Settings	Required	1899 (English)
Research Mandates and Occupational Health Issues	Required	1900 (English)
Alternatives Search, Humane Standards, Housing, Source, and Acclimation and Quarantine	Required	1902 (English)
Detecting Pain and Distress and Biological Features	Required	1908 (English)
Injections, Blood Collection, and Pain Relief	Required	1910 (English)
Surgery, Supportive Care and Monitoring, Euthanasia, and References	Required	1912 (English)

Working with Ferrets in Research Settings

This course addresses issues in the use of ferrets in research.

Learners must complete six required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Working with Ferrets in Research Settings - Introduction	Required	12244 (English)
Research Mandates and Occupational Health Issues	Required	12413 (English)
Humane Standards	Required	12414 (English)
Biology, Injections and Blood Collection and Detection of Pain and Distress	Required	12415 (English)
Surgery, Supportive Care and Monitoring, Euthanasia	Required	12416 (English)
References	Required	12417 (English)

Working with Fish in Research Settings

This course addresses issues in the use of fish in research.

Learners must complete six required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction, Taxonomy, Research Mandates, and Occupational Health	Required	15315 (English)
Alternatives, Humane Standards, Housing, Source, and Acclimation and Quarantine	Required	15316 (English)
Biological Features	Required	15317 (English)
Recognizing Pain and Distress, Collection, Identification and Routes of Administration	Required	15318 (English)
Anesthesia, Analgesia, Surgery, and Postoperative Care	Required	15319 (English)
Euthanasia	Required	15320 (English)

Working with Gerbils in Research Settings

This course addresses issues in the use of gerbils in research.

Learners must complete five required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Working with Gerbils in Research Settings	Required	2014 (English)
Taxonomy, Research Mandates and Occupational Health Issues	Required	2015 (English)
Alternatives Search, Humane Standards, Housing, Acclimation and Quarantine, and Detection of Pain and Distress	Required	2001 (English)
Strains, Biology, Injections and Blood Collection, and Pain Relief	Required	2006 (English)
Surgery, Supportive Care and Monitoring, Euthanasia, and References	Required	2010 (English)

Working with Guinea Pigs in Research Settings

This course addresses issues in the use of guinea pigs in research.

Learners must complete eight required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Working with Guinea Pigs in Research Settings	Required	1951 (English)
Taxonomy, Research Mandates, and Occupational Health Issues	Required	1952 (English)
Alternatives Search, Humane Standards, Acclimation and Quarantine, Housing, and Detection of Pain and Distress	Required	1954 (English)
Genetics, Biology, Injections and Blood Collection, Antibody Production, and Pain Relief	Required	1959 (English)

Surgery, Supportive Care and Monitoring, Euthanasia, and References	Required	1964 (English)

Working with Hamsters in Research Settings

This course addresses issues in the use of hamsters in research.

Learners must complete five required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Working with Hamsters in Research Settings	Required	1984 (English)
Research Mandates and Occupational Health Issues	Required	1985 (English)
Alternatives Search, Humane Standards, Housing, Acclimation and Quarantine, Detecting Pain and Distress	Required	1987 (English)
Species/Strains	Required	1992 (English)
Surgery, Supportive Care and Monitoring, Euthanasia, and References	Required	1996 (English)

Working with Horses in Agricultural Research Settings

This course addresses issues in the use of horses in research.

Learners must complete six required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Working with Horses in an Agricultural Research Setting	Required	16660 (English)
Research Mandates	Required	16661 (English)
Biological Features and Behavioral Characteristics	Required	16662 (English)
Veterinary Care	Required	16663 (English)
Occupational Health Hazards and Zoonoses	Required	16664 (English)
Euthanasia	Required	16665 (English)

Working with Mice in Research Settings

This course addresses issues in the use of mice in research.

Learners must complete six required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Working with Mice in Research Settings	Required	1933 (English)
Research Mandates and Occupational Health Issues	Required	1934 (English)

Alternatives Searches, Humane Standards, Housing, and Acclimation and Quarantine	Required	1936 (English)
Detecting Pain and Distress, Genetics, and Biological Features	Required	1940 (English)
Injections, Blood Collection, and Antibody Production	Required	1943 (English)
Surgery, Supportive Care and Monitoring, Euthanasia, and References	Required	1946 (English)

Working with Non-Human Primates in Research Settings

This course addresses issues in the use of non-human primates in research.

Module Title	Recommended Use	ID (Language)
Introduction to Working With Non-Human Primates in Research Settings	Required	2032 (English)
Research Mandates and Occupational Health Issues	Required	2033 (English)
Alternatives Search, Humane Standards, Housing, Source, and Acclimation and Quarantine	Required	2035 (English)
Detecting Pain and Distress, and Biological Features	Required	2040 (English)
Injections, Blood Collection, and Pain Relief	Required	2042 (English)
Surgery, Supportive Care and Monitoring, Euthanasia, and References	Required	2044 (English)

Working with Rabbits in Research Settings

This course addresses issues in the use of rabbits in research.

Learners must complete six required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Working with Rabbits in Research Settings	Required	1968 (English)
Research Mandates and Occupational Health Issues	Required	1969 (English)
Alternatives Searches, Humane Standards, Housing, and Acclimation and Quarantine	Required	1971 (English)
Detecting Pain and Distress, Genetics, and Biological Features	Required	1975 (English)
Injections, Blood Collection, Antibody Production, and Pain Relief	Required	1977 (English)
Surgery, Supportive Care and Monitoring, Euthanasia, and References	Required	1980 (English)

Working with Rats in Research Settings

This course addresses issues in the use of rats in research.

Learners must complete six required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Working with Rats in Research Settings	Required	1916 (English)

Research Mandates and Occupational Health Issues	Required	1917 (English)
Alternatives Searches, Humane Standards, Housing, and Acclimation and Quarantine	Required	1919 (English)
Detecting Pain and Distress, Genetics, and Biological Features	Required	1923 (English)
Injections, Blood Collection, Antibody Production, and Pain Relief	Required	1926 (English)
Surgery, Supportive Care and Monitoring, Euthanasia, and References	Required	1929 (English)

Working with Reptiles in Research Settings

This course addresses issues in the use of reptiles in research.

Learners must complete six required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Working with Reptiles in Research Settings	Required	16787 (English)
Background, Research Mandates, Zoonotic Diseases, and Occupational Health Considerations	Required	16788 (English)
Humane Standards, Housing, Procurement, and Quarantine	Required	16789 (English)
Biological and Behavioral Features	Required	16790 (English)
Detecting Pain and Distress, Capture, and Handling	Required	16791 (English)
Analgesics, Sedation, Anesthesia, Surgery, and Euthanasia	Required	16792 (English)

Working with Sheep and Goats in Research Settings

This course addresses issues in the use of sheep and goats in research.

Learners must complete six required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Working with Sheep and Goats in Research Settings	Required	17017 (English)
Research Mandates and Animal Care	Required	17018 (English)
Biological Features and Behavioral Characteristics	Required	17019 (English)
Occupational Health Hazards and Zoonoses	Required	17020 (English)
Husbandry and Veterinary Care	Required	17021 (English)
Surgery, Anesthetics, Analgesics, and Euthanasia	Required	17022 (English)

Working with Swine in Research Settings

This course addresses issues in the use of swine in research.

Learners must complete six required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Working with Swine in Research Settings	Required	2016 (English)
Research Mandates and Occupational Health Issues	Required	2017 (English)
Alternatives Search, Humane Standards, Housing, Source, and Acclimation and Quarantine	Required	2019 (English)
Detecting Pain and Distress, and Biological Features	Required	2024 (English)
Injections, Blood Collection, and Pain Relief	Required	2026 (English)
Surgery, Supportive Care and Monitoring, Euthanasia, and References	Required	2028 (English)

Working with Zebrafish (Danio rerio) in Research Settings

This course addresses issues in the use of zebrafish in research.

Learners must complete five required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction, Background, Research Mandates, Zoonotic Diseases and Occupational Health Considerations	Required	16243 (English)
Humane Standards, Procurement and Quarantine, and Identification	Required	16244 (English)
Husbandry, Microenvironment, Nutrition, and Animal Records	Required	16245 (English)
Biological and Behavioral Features, the Zebrafish Genome, Reproduction and Development	Required	16246 (English)
Recognizing Pain and Distress, Restraint, Anesthesia and Sedation, Surgery and Euthanasia	Required	16247 (English)

Biosafety and Biosecurity (BSS)

This section presents the basic BSS courses available to independent learners. For module descriptions, see the **BSS Catalog**.

Animal Biosafety

This course is designed for researchers and animal handlers working with small or conventional animals used in experiments involving biohazards.

Learners must complete one required module with a score of at least 80 percent on the quiz to earn a completion report. One supplemental module is presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Animal Biosafety	Required	13654 (English)
Biosafety and Biosecurity (BSS) Introduction	Supplemental	13987 (English)

Biosafety and Biosecurity (BSS) Complete Series

This course includes all available BSS modules.

Learners must complete 40 required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Biosafety and Biosecurity (BSS) Introduction	Required	13987 (English)
Biosafety Course Overview	Required	13314 (English)
Laboratory-Acquired Infections	Required	13454 (English)
Biohazard Risk Assessment	Required	13455 (English)
Medical Surveillance	Required	13456 (English)
Risk Management: Work Practices	Required	13898 (English)
Risk Management: Personal Protective Equipment	Required	13458 (English)
Risk Management: Emergency and Spill Response	Required	13459 (English)
Risk Management: Engineering Controls	Required	13929 (English)
Risk Management: Laboratory Design	Required	13484 (English)
Work Safely with Sharp Instruments	Required	13899 (English)
Disinfection and Sterilization	Required	13900 (English)
Safe Sharps Devices	Required	13946 (English)
Centrifuge Precautions	Required	13945 (English)
Engineering Controls and Containment Devices	Required	13497 (English)

OSHA Bloodborne Pathogens Standard	Required	13902 (English)
Hepatitis B Virus (HBV) Vaccination	Required	13903 (English)
Labels and Engineering Controls	Required	13904 (English)
Universal Precautions and Work Practices	Required	13913 (English)
Emergency Response Procedures	Required	13914 (English)
NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules	Required	13493 (English)
Human Gene Transfer Research	Required	13494 (English)
Select Agents	Required	13951 (English)
Biosecurity	Required	13857 (English)
Bioterrorism	Required	13524 (English)
Shipping Regulated Biological Materials: Overview	Required	13486 (English)
Shipping Regulated Biological Materials: Classifications	Required	13487 (English)
Shipping Regulated Biological Materials: Packaging Requirements	Required	13488 (English)
Shipping Regulated Biological Materials: Shipping Papers	Required	13655 (English)
Shipping Regulated Biological Materials: Permits for Restricted Shipments and Transfers	Required	13656 (English)
Shipping Regulated Biological Materials: Security Awareness	Required	13657 (English)
Shipping Regulated Biological Materials: Emergency Response Information	Required	13658 (English)
Shipping Regulated Biological Materials: Refrigerants	Required	13659 (English)
Shipping Regulated Biological Materials: Appendix	Required	13660 (English)
Animal Biosafety	Required	13654 (English)
Understanding Nanotechnology and Its Implications	Required	14044 (English)
Dual Use Research of Concern (DURC)	Required	16263 (English)
USDA Permits: Plant Pest	Required	17256 (English)
USDA Permits: Soils	Required	17257 (English)
USDA Permits: Veterinary Services (VS)	Required	17258 (English)

Biosafety Retraining

This course provides a refresher for researchers handling biohazards and should be scheduled by the institution periodically to reinforce biocontainment practices to control biohazards.

Learners must complete ten required module with an average score of 80 percent on all quizzes to earn a completion report. Two supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Risk Management: Work Practices	Required	13898 (English)
Risk Management: Personal Protective Equipment	Required	13458 (English)
Risk Management: Emergency and Spill Response	Required	13459 (English)
Risk Management: Engineering Controls	Required	13929 (English)
Risk Management: Laboratory Design	Required	13484 (English)
Work Safely with Sharp Instruments	Required	13899 (English)
Disinfection and Sterilization	Required	13900 (English)
Safe Sharps Devices	Required	13946 (English)
Centrifuge Precautions	Required	13945 (English)
Engineering Controls and Containment Devices	Required	13497 (English)
Biosafety and Biosecurity (BSS) Introduction	Supplemental	13987 (English)
Dual Use Research of Concern (DURC)	Supplemental	16263 (English)

Dual Use Research of Concern (DURC)

This course is based on the pending U.S. Government Policy for Institutional Oversight of Life Sciences Dual Use Research of Concern (U.S DURC Policy). Once this policy has been finalized, all institutions that receive federal funds to conduct or sponsor research meeting DURC criteria will be required to apply this policy. It covers important information pertaining to the DURC review process including: An outline of the agents and toxins that meet DURC criteria, the criteria of research experiments that meet DURC criteria, information available to organizations in identifying DURC, and the required steps for an organization to take when the DURC policy is finalized.

Learners must complete one required module with a score of at least 80 percent on the quiz to earn a completion report. One supplemental module is presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Dual Use Research of Concern (DURC)	Required	16263 (English)
Biosafety and Biosecurity (BSS) Introduction	Supplemental	13987 (English)

Emergency and Incident Response to Biohazard Spills and Releases

This course provides biohazard emergency response training for employees who are designated as hazardous materials responders and address the biohazard component of their annual training.

Learners must complete one required module with a score of at least 80 percent on the quiz to earn a completion report. One supplemental module is presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Risk Management: Emergency and Spill Response	Required	13459 (English)
Biosafety and Biosecurity (BSS) Introduction	Supplemental	13987 (English)

Human Gene Transfer

This course is designed for principal investigators, clinicians, and institutional biosafety committee (IBC) members participating in the conduct or review of a human gene transfer clinical study. It reviews the National Institutes of Health (NIH) and IBC requirements for human gene transfer clinical trials.

Learners must complete one required module with a score of at least 80 percent on the quiz to earn a completion report. One supplemental module is presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Human Gene Transfer Research	Required	13494 (English)
Biosafety and Biosecurity (BSS) Introduction	Supplemental	13987 (English)

Initial Biosafety Training

This course provides initial training for researchers handling biohazards in a research or clinical laboratory. It addresses awareness of biohazards, risk assessment, and key risk management principles including work practices, personal protective equipment, engineering controls, and emergency response.

Learners must complete 14 required modules with an average score of 80 percent on all quizzes to earn a completion report. Two supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Biosafety Course Overview	Required	13314 (English)
Laboratory-Acquired Infections	Required	13454 (English)
Biohazard Risk Assessment	Required	13455 (English)
Medical Surveillance	Required	13456 (English)
Risk Management: Work Practices	Required	13898 (English)

Risk Management: Personal Protective Equipment	Required	13458 (English)
Risk Management: Emergency and Spill Response	Required	13459 (English)
Risk Management: Engineering Controls	Required	13929 (English)
Risk Management: Laboratory Design	Required	13484 (English)
Work Safely with Sharp Instruments	Required	13899 (English)
Disinfection and Sterilization	Required	13900 (English)
Safe Sharps Devices	Required	13946 (English)
Centrifuge Precautions	Required	13945 (English)
Engineering Controls and Containment Devices	Required	13497 (English)
Biosafety and Biosecurity (BSS) Introduction	Supplemental	13987 (English)
Dual Use Research of Concern (DURC)	Supplemental	16263 (English)

Institutional Biosafety Committee Member Training

This course provides training for members of the organization's institutional biosafety committee (IBC), with a focus in general biosafety and the requirements of the National Institutes of Health (NIH) Guidelines for Research Involving Recombinant and Synthetic Nucleic Acid Molecules.

Learners must complete seven required modules with an average score of 80 percent on all quizzes to earn a completion report. One supplemental module is presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Biosafety Course Overview	Required	13314 (English)
Laboratory-Acquired Infections	Required	13454 (English)
Biohazard Risk Assessment	Required	13455 (English)
Medical Surveillance	Required	13456 (English)
NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules	Required	13493 (English)
Human Gene Transfer Research	Required	13494 (English)
Dual Use Research of Concern (DURC)	Required	16263 (English)
Biosafety and Biosecurity (BSS) Introduction	Supplemental	13987 (English)

Nanotechnology

This course provides basic awareness and understanding of nanoparticles, and the unique safety issues associated with their handling.

Learners must complete one required module with a score of at least 80 percent on the quiz to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Understanding Nanotechnology and Its Implications	Required	14044 (English)

NIH Recombinant DNA Guidelines

This course provides principal investigators and those responsible for the conduct of recombinant and synthetic nucleic acid research experiments with basic training and an overview of the requirements established by the National Institutes of Health (NIH).

Learners must complete one required module with a score of at least 80 percent on the quiz to earn a completion report. Two supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules	Required	13493 (English)
Biosafety and Biosecurity (BSS) Introduction	Supplemental	13987 (English)
Dual Use Research of Concern (DURC)	Supplemental	16263 (English)

OSHA Bloodborne Pathogens

This course is intended for researchers who handle human blood, tissues, bodily fluids, or other potentially infectious materials. It is designed as initial training or annual retraining to meet the requirements of the U.S. Occupational Safety and Health Administration's (OSHA) Bloodborne Pathogen Standard.

To fulfill the OSHA Bloodborne Pathogen Standard, a learner must complete all of the modules within this section. This requirement includes module ID: 13902, 13903, 13904, 13913, and 13914.

Learners must complete five required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
OSHA Bloodborne Pathogens Standard	Required	13902 (English)
Hepatitis B Virus (HBV) Vaccination	Required	13903 (English)
Labels and Engineering Controls	Required	13904 (English)
Universal Precautions and Work Practices	Required	13913 (English)
Emergency Response Procedures	Required	13914 (English)

Personal Protective Equipment

This course discusses U.S. Occupational Safety and Health Administration (OSHA) personal protective equipment (PPE) training requirements for researchers handling biohazards. A supplemental PPE Training Record Form and PPE Training and Use Table are available at the end of the module to facilitate the documentation of training.

Learners must complete one required module with a score of at least 80 percent on the quiz to earn a completion report. One supplemental module is presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Risk Management: Personal Protective Equipment	Required	13458 (English)
Biosafety and Biosecurity (BSS) Introduction	Supplemental	13987 (English)

Select Agents, Biosecurity, and Bioterrorism

This course is intended for researchers who handle or have access to select agents, potential biowarfare agents or other potentially dangerous biological materials. It is designed to provide initial biosecurity awareness training, but must be augmented with site-specific biosecurity information as required by the select agent regulations.

Learners must complete three required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Select Agents	Required	13951 (English)
Biosecurity	Required	13857 (English)
Bioterrorism	Required	13524 (English)

Shipping and Transport of Regulated Biological Materials

This course is designed as initial training and periodic retraining for employees who package or ship diagnostic and clinical human or animal specimens, human or animal pathogens, and other regulated biohazards. It is designed to meet requirements of the International Air Transport Association (IATA) and the U.S. Department of Transportation (DOT).

Learners must complete nine required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Shipping Regulated Biological Materials: Overview	Required	13486 (English)
Shipping Regulated Biological Materials: Classifications	Required	13487 (English)
Shipping Regulated Biological Materials:	Required	13488 (English)

Packaging Requirements		
Shipping Regulated Biological Materials: Shipping Papers	Required	13655 (English)
Shipping Regulated Biological Materials: Permits for Restricted Shipments and Transfers	Required	13656 (English)
Shipping Regulated Biological Materials: Security Awareness	Required	13657 (English)
Shipping Regulated Biological Materials: Emergency Response Information	Required	13658 (English)
Shipping Regulated Biological Materials: Refrigerants	Required	13659 (English)
Shipping Regulated Biological Materials: Appendix	Required	13660 (English)

USDA Permits

This course covers the import, transit, and release of regulated: plants pests, plant pathogens, plants, and plant products; soils; and animal pathogens, animal products, and etiologic agents. Organizations may add these modules to a basic BSS course or setup a course specific to learners working with the particular permit(s).

Learners must complete nine required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
USDA Permits: Plant Pest	Required	17256 (English)
USDA Permits: Soils	Required	17257 (English)
USDA Permits: Veterinary Services (VS)	Required	17258 (English)

Clinical Research Coordinator (CRC)

This section presents the CRC courses available to independent learners. For module descriptions, see the **CRC Catalog**.

CRC Foundations Course

The CRC Foundations course provides clinical research professionals with basic training tailored to the CRC's fundamental role in the conduct of clinical trials. It is designed for new CRCs and can be used by organizations as onboarding training. It may also be useful to those pursuing a career in clinical research. It offers learners a foundation that expands beyond but is directly connected to the **Human Subjects Research (HSR)** and **Good Clinical Practice (GCP) ICH** training. It is intended for CRCs, investigators, and other clinical research professionals or those pursuing a career in clinical research.

Learners must complete 11 required modules with an average score of 80 percent on all quizzes to earn a completion report. Four supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
CITI CRC Course: Overview	Required	16682 (English)
Planning Research	Required	16751 (English)
Funding, Financial Management, and Budgeting	Required	16752 (English)
Working with the Institutional Review Board (IRB)	Required	16753 (English)
Protocol Review and Approvals	Required	16754 (English)
Principal Investigator (PI) Responsibilities	Required	16755 (English)
Clinical Research Coordinator (CRC) Responsibilities	Required	16756 (English)
Sponsor Responsibilities	Required	16757(English)
Informed Consent	Required	16758 (English)
Site Management, Quality Assurance, and Public Information	Required	16759 (English)
CRC Resources	Required	16774 (English)
Overview of the Clinical Trial Agreement (CTA)	Supplemental	17356 (English)
Understanding the Terms of the Clinical Trial Agreement (CTA)	Supplemental	17357 (English)
Role of the Researcher and Site in Managing the Clinical Trial Agreement (CTA)	Supplemental	17358 (English)
Clinical Trial Agreement (CTA) Negotiation for Researchers and Sites	Supplemental	17359 (English)

CRC Advanced Course

The CRC Advanced course provides clinical research professionals with advanced training tailored to the CRC's critical role in the conduct of clinical trials. It is designed for CRCs who have taken CRC Foundations, or those with two or more years of experience as a CRC. It complements the foundational course, and may be used for professional development and/or as a refresher course. It is intended for CRCs, investigators, and other clinical research professionals or those pursuing a career in clinical research.

Learners must complete 6 required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Project Management for Clinical Trials	Required	17864 (English)
Preventing and Identifying Misconduct and Noncompliance	Required	17865 (English)
Training and Mentoring	Required	17866 (English)
Subject Recruitment and Retention	Required	17868 (English)
Statistics and Data Management of Clinical Trials	Required	17869 (English)
Specialty Areas and Regulatory Requirements	Required	17870 (English)

CRC Combined Course (CRC Foundations + CRC Advanced)

The CRC Combined course includes both the CRC Foundations course and the CRC Advanced course. It is intended for CRCs, investigators, and other clinical research professionals or those pursuing a career in clinical research.

Learners must complete 17 required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
CITI CRC Course: Overview	Required	16682 (English)
Planning Research	Required	16751 (English)
Funding, Financial Management, and Budgeting	Required	16752 (English)
Working with the Institutional Review Board (IRB)	Required	16753 (English)
Protocol Review and Approvals	Required	16754 (English)
Principal Investigator (PI) Responsibilities	Required	16755 (English)
Clinical Research Coordinator (CRC) Responsibilities	Required	16756 (English)
Sponsor Responsibilities	Required	16757(English)
Informed Consent	Required	16758 (English)
Site Management, Quality Assurance, and Public Information	Required	16759 (English)
CRC Resources	Required	16774 (English)
Overview of the Clinical Trial Agreement (CTA)	Supplemental	17356 (English)
Understanding the Terms of the Clinical Trial Agreement (CTA)	Supplemental	17357 (English)

Role of the Researcher and Site in Managing the Clinical Trial Agreement (CTA)	Supplemental	17358 (English)
Clinical Trial Agreement (CTA) Negotiation for Researchers and Sites	Supplemental	17359 (English)
Project Management for Clinical Trials	Required	17864 (English)
Preventing and Identifying Misconduct and Noncompliance	Required	17865 (English)
Training and Mentoring	Required	17866 (English)
Subject Recruitment and Retention	Required	17868 (English)
Statistics and Data Management of Clinical Trials	Required	17869 (English)
Specialty Areas and Regulatory Requirements	Required	17870 (English)

Clinical Trial Billing Compliance (CTBC)

This section presents the CTBC course available to independent learners. For module descriptions, see the **CTBC Catalog.**

CTBC Course

This course is intended to provide individuals involved in clinical research billing compliance including research staff, department administrators, registration staff, and billing/coding staff, and those interested in working in research billing compliance with information about clinical research billing.

Learners must complete six required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Before the National Coverage Determination/The Clinical Trial Policy and Its Meaning	Required	17061 (English)
Understanding the Term "Qualifying Clinical Trial" for Investigational Drugs and Devices	Required	17062 (English)
Implementing a Clinical Trial Billing Compliance Program	Required	17063 (English)
Study Document Synchronization	Required	17064 (English)
Using a Coverage Analysis to Enhance Billing Accuracy and Claims Processing	Required	17065 (English)
Coding Clinical Trial Activity Through the Insurance Claim	Required	17066 (English)

Conflicts of Interest (COI)

COI Basic Course

This section presents the basic COI course available to independent learners. For module descriptions, see the **COI Catalog**.

COI Basic

The *COI Basic* course is intended to provide learners with a review of the U.S. Public Health Service (PHS) regulations on financial conflicts of interest and an investigator's responsibilities relating to the disclosure of "Significant Financial Interests." It also contains the optional feature of allowing an organization to create a customized module that details its own internal conflict of interest policies. An organization may also choose to include a module on conflicts of commitment and conscience, and a module on institutional conflicts of interest.

Learners must complete three required modules with an average score of 80 percent on all quizzes to earn a completion report. Two supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
CITI Conflict of Interest Course – Introduction (COI-Basic)	Required	15177 (English)
Financial Conflicts of Interest: Overview, Investigator Responsibilities, and COI Rules (COI-Basic)	Required	15070 (English)
Institutional Responsibilities as They Affect Investigators (COI-Basic)	Required	15072 (English)
Conflicts of Commitment and Conscience (COI-Basic)	Supplemental	15073 (English)
Institutional Conflicts of Interest (COI-Basic)	Supplemental	16765 (English)

COI Refresher Course

This section presents the basic COI course available to independent learners. For module descriptions, see the **COI Catalog**.

COI Refresher

The *COI Refresher* course provides learners with retraining on key concepts and rules relating to the U.S. Public Health Services (PHS) regulations on financial conflicts of interest. The course is primarily tailored to investigators who receive funding from a PHS agency or who are required by their organization to be familiar with the PHS regulations.

Learners must complete four required modules with an average score of 80 percent on all quizzes to earn a completion report. One supplemental module is presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Conflicts of Interest and the PHS Regulations (COI-Refresher)	Required	16950 (English)
Significant Financial Interests (COI-Refresher)	Required	16951 (English)
Institutional Obligations as They Affect Investigators (COI-Refresher	Required	16952 (English)
COI Management Plans and Noncompliance (COI-Refresher)	Required	16953 (English)

Disaster Planning for the Research Enterprise (DPRE)

This section presents the DPRE course available to independent learners. For module descriptions, see the **DPRE Catalog**.

DPRE Course

This course is intended to provide institutional officials, faculty, staff, investigators, and those administratively responsible for research oversight at organizations such as Principal Investigators (PIs), Institutional Review Boards (IRBs), Institutional Animal Care and Use Committees (IACUCs), and Institutional Biosafety Committees (IBCs) with information about disaster planning and business continuity.

Learners must complete six required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Disaster Planning for the Research Enterprise: Overview	Required	16693 (English)
Disaster Planning: Responsibilities of the Principal Investigator in Human Subjects Research	Required	16795 (English)
Disaster Planning: Animal Care and Use Research	Required	16750 (English)
Disaster Planning: Human Subjects Research	Required	16694 (English)
Disaster Planning: Data Security	Required	16797 (English)
Disaster Planning: Biohazards, Valuable Biological Materials, and Select Agents	Required	16796 (English)

Essentials of Research Administration

This section presents the Research Administration course available to independent learners. For module descriptions, see the **Essentials of Research Administration Catalog**.

Essentials of Research Administration

CITI Program's Research Administration course provides an overview of research administration including the varying structures of sponsored programs, research advancement and development responsibilities, and award process specifics (pre-award, award negotiation and acceptance, and post-award). It also assists individuals working or seeking employment in research administration by discussing professional opportunities, various available resources, professional associations/organizations, advanced learning opportunities, and more.

Learners must complete five required modules with a score of at least 80 percent on its quiz to earn a completion report. Four supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Elements of Research Administration	Required	16967 (English)
Elements of Research Development	Required	16968 (English)
Elements of Pre-Award	Required	16969 (English)
Elements of Award Negotiation and Acceptance	Required	16970 (English)
Elements of Post-Award	Required	16971 (English)
Overview of the Clinical Trial Agreement (CTA)	Supplemental	17356 (English)
Understanding the Terms of the Clinical Trial Agreement (CTA)	Supplemental	17357 (English)
Role of the Researcher and Site in Managing the Clinical Trial Agreement (CTA)	Supplemental	17358 (English)
Clinical Trial Agreement (CTA) Negotiation for Researchers and Sites	Supplemental	17359 (English)

Essentials of Statisical (EOSA)

This section presents the EOSA courses available to independent learners. For module descriptions, see the **EOSA Catalog**.

EOSA: Complete (Parts 1, 2, and 3)

Provides a comprehensive introduction to statistical analysis, including foundational and advanced topics.

Learners must complete all required modules with an average score of 75 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction	Required	17609 (English)
Population and Sample	Required	17610 (English)
Central Tendency and Variability	Required	17611 (English)
Sensitivity and Specificity	Required	17612 (English)
Distribution and Probability	Required	17613 (English)
Probability and Odds	Required	17614 (English)
Normal Distribution and Z-Scores	Required	17615 (English)
Skewness and Kurtosis	Required	17616 (English)
Standard Error and Type I/II Errors	Required	17617 (English)
The Four Horsemen	Required	17618 (English)
Confidence Intervals and Degrees of Freedom	Required	17619 (English)
Comparing Two Independent Means	Required	17620 (English)
Wilcoxon Rank-Sum Test	Required	17622 (English)
Paired Samples T-Test	Required	17623 (English)
Nonparametric Methods for Paired Sample Data	Required	17624 (English)
Analysis of Variance	Required	17625 (English)
Following Up Significant ANOVA	Required	17626 (English)
Kruskal-Wallis Nonparametric ANOVA	Required	17627 (English)
Proportions	Required	17628 (English)
Comparing Two Independent Proportions	Required	17629 (English)
Contingency Tables and Chi-Square Tests	Required	17630 (English)
Other Contingency Table Analyses	Required	17631 (English)
Correlations	Required	17632 (English)
Comparing Correlation Coefficients	Required	17633 (English)
Simple Linear Regression	Required	17634 (English)
Multiple Regression	Required	17635 (English)

EOSA: Part 1

Provides learners with an introduction to foundational topics in statistics.

Learners must complete all required modules with an average score of 75 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction	Required	17609 (English)
Population and Sample	Required	17610 (English)
Central Tendency and Variability	Required	17611 (English)
Sensitivity and Specificity	Required	17612 (English)
Distribution and Probability	Required	17613 (English)
Probability and Odds	Required	17614 (English)
Normal Distribution and Z-Scores	Required	17615 (English)
Skewness and Kurtosis	Required	17616 (English)

EOSA: Part 2

Continues the exploration of statistical topics, expanding on the foundational points presented in Part 1.

Learners must complete all required modules with an average score of 75 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Standard Error and Type I/II Errors	Required	17617 (English)
The Four Horsemen	Required	17618 (English)
Confidence Intervals and Degrees of Freedom	Required	17619 (English)
Comparing Two Independent Means	Required	17620 (English)
Wilcoxon Rank-Sum Test	Required	17622 (English)
Paired Samples T-Test	Required	17623 (English)
Nonparametric Methods for Paired Sample Data	Required	17624 (English)

EOSA: Part 3

Completes the overview of statistical topics, including advanced and often challenging analyses.

Learners must complete all required modules with an average score of 75 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Analysis of Variance	Required	17625 (English)
Following Up Significant ANOVA	Required	17626 (English)
Kruskal-Wallis Nonparametric ANOVA	Required	17627 (English)
Proportions	Required	17628 (English)
Comparing Two Independent Proportions	Required	17629 (English)
Contingency Tables and Chi-Square Tests	Required	17630 (English)
Other Contingency Table Analyses	Required	17631 (English)
Correlations	Required	17632 (English)
Comparing Correlation Coefficients	Required	17633 (English)
Simple Linear Regression	Required	17634 (English)
Multiple Regression	Required	17635 (English)

Export Compliance (EC)

This section presents the EC basic course available to independent learners. For module descriptions, see the **EC Catalog**.

EC Course

CITI Program's EC course provides an introduction to export compliance, as well as role and responsibility tailored modules reflecting key individuals and departments across organizations that must adhere to export compliance regulations.

Learners must complete one required module with a score of at least 80 percent on its quiz to earn a completion report. Ten supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Export Compliance	Required	16800 (English)
Export Compliance for Researchers: Part I	Supplemental	16801 (English)
Export Compliance for Researchers: Part II	Supplemental	16802 (English)
Export Compliance for Research Administration	Supplemental	16803 (English)
Export Compliance When Using Technology in Research	Supplemental	16804 (English)
Export Compliance and Biosafety	Supplemental	16805 (English)
Export Compliance for Operational Departments	Supplemental	16806 (English)
Export Compliance for International Shipping	Supplemental	16807 (English)
Export Compliance and Purchasing	Supplemental	16808 (English)
Export Compliance and International and Foreign Waters	Supplemental	16809 (English)
Export Compliance and Collaborations	Supplemental	16810 (English)
Export Compliance and Distance Education	Supplemental	16811 (English)
Export Compliance and United States Sanctions Programs	Supplemental	16812 (English)

Good Clinical Practice (GCP)

GCP Basic Courses

This section presents the GCP basic courses available to independent learners. For module descriptions, see the **GCP Catalog**.

GCP for Clinical Trials with Investigational Drugs and Medical Devices (U.S. FDA Focus)*

This course is intended for research personnel involved in drug, device, or biologic studies and who would benefit from FDA-focused training.

* This ICH E6 GCP Investigator Site Training meets the Minimum Criteria for ICH GCP Investigator Site Personnel Training identified by TransCelerate BioPharma as necessary to enable mutual recognition of GCP training among trial sponsors. Organizations that wish to utilize this course in keeping with the minimum criteria must designate all available (FDA Focus) modules as "Required."

Learners must complete 14 required modules with an average score of 80 percent on all quizzes to earn a completion report. Seven supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
The CITI Good Clinical Practice Course for Clinical Trials Involving Drugs and Devices	Required	1350 (English)
Overview of New Drug Development	Required	1351 (English)
Overview of ICH GCP	Required	1352 (English)
ICH – Comparison Between ICH GCP E6 and U.S. FDA Regulations	Required	1354 (English)
Conducting Investigator-Initiated Studies According to FDA Regulations and GCP	Required	1355 (English)
Investigator Obligations in FDA-Regulated Clinical Research	Required	1356 (English)
Managing Investigational Agents According to GCP Requirements	Required	1357 (English)
Overview of U.S. FDA Regulations for Medical Devices	Required	1358 (English)
Informed Consent in Clinical Trials of Drugs, Biologics, and Devices	Required	1359 (English)
Detecting and Evaluating Adverse Events	Required	1360 (English)
Reporting Serious Adverse Events	Required	1361 (English)
Monitoring of Clinical Trials by Industry Sponsors	Required	1362 (English)
Audits and Inspections of Clinical Trials	Required	1363 (English)
Completing the CITI GCP Course	Required	1364 (English)
Humanitarian Use Devices (HUDs)	Supplemental	16306 (English)
Phase I Research: Understanding Phase I Research	Supplemental	16873 (English)
Phase I Research: Protecting Phase I Subjects	Supplemental	16874 (English)

Overview of the Clinical Trial Agreement (CTA)	Supplemental	17356 (English)
Understanding the Terms of the Clinical Trial Agreement (CTA)	Supplemental	17357 (English)
Role of the Researcher and Site in Managing the Clinical Trial Agreement (CTA)	Supplemental	17358 (English)
Clinical Trial Agreement (CTA) Negotiation for Researchers and Sites	Supplemental	17359 (English)

GCP for Clinical Trials with Investigational Drugs and Biologics (ICH Focus)*

This course is intended for research personnel involved in drug and biologic studies and who would benefit from a more internationally focused training. It should be noted, however, that when appropriate, references to FDA regulations and guidance are included.

* This ICH E6 GCP Investigator Site Training meets the Minimum Criteria for ICH GCP Investigator Site Personnel Training identified by TransCelerate BioPharma as necessary to enable mutual recognition of GCP training among trial sponsors. Organizations that wish to utilize this course in keeping with the minimum criteria must designate all available (ICH Focus) modules as "Required."

Learners must complete 13 required modules with an average score of 80 percent on all quizzes to earn a completion report. Six supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
The CITI Good Clinical Practice Course for Clinical Trials Involving Drugs and Biologics	Required	14613 (English)
Overview of New Drug Development	Required	14621 (English)
Overview of ICH GCP	Required	14622 (English)
ICH - Comparison Between ICH GCP E6 and U.S. FDA Regulations	Required	14625 (English)
Conducting Investigator-Initiated Studies According to FDA Regulations and GCP	Required	14614 (English)
Investigator Obligations in FDA-Regulated Research	Required	14615 (English)
Managing Investigational Agents According to GCP Requirements	Required	14617 (English)
Informed Consent in Clinical Trials of Drugs and Biologics	Required	14618 (English)
Monitoring Clinical Trials of Drugs by Industry Sponsors	Required	14619 (English)
Audits and Inspections of Clinical Trials of Drugs and Biologics	Required	14620(English)
Detecting and Evaluating Adverse Events	Required	14623 (English)
Reporting Serious Adverse Events in Investigations of Drugs and Biologics	Required	14624 (English)
Completing the CITI GCP Course	Required	14626 (English)
Phase I Research: Understanding Phase I Research *Note: This module does not hold CE credit designation.*	Supplemental	16873 (English)
Phase I Research: Protecting Phase I Subjects *Note: This module does not hold CE credit designation.*	Supplemental	16874 (English)
Overview of the Clinical Trial Agreement (CTA)	Supplemental	17356 (English)
Understanding the Terms of the Clinical Trial Agreement (CTA)	Supplemental	17357 (English)
Role of the Researcher and Site in Managing the Clinical Trial Agreement (CTA)	Supplemental	17358 (English)
Clinical Trial Agreement (CTA) Negotiation for Researchers and Sites	Supplemental	17359 (English)

GCP for Clinical Investigations of Devices

This course is intended for research personnel involved in device studies. It should be noted, however, that when appropriate, references to FDA regulations and guidance are included.

Learners must complete nine required modules with an average score of 80 percent on all quizzes to earn a completion report. Five supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Overview of U.S. FDA Regulations for Investigational Devices	Required	14637 (English)
Investigator Obligations in FDA-Regulated Clinical Investigations of Devices	Required	14635 (English)
Conducting Investigator-Initiated Clinical Investigations of Devices	Required	14634 (English)
Managing Investigational Devices According to GCP Requirements	Required	14636 (English)
Informed Consent in Clinical Investigations of Devices	Required	14638 (English)
Monitoring Clinical Investigations of Devices	Required	14639 (English)
Audits and Inspections of Clinical Investigations of Devices	Required	14640 (English)
Reporting Requirements for Clinical Investigations of Devices	Required	14641 (English)
Completing the CITI Program's GCP Course for Clinical Investigations of Devices	Required	14642(English)
Humanitarian Use Devices (HUDs) *Note: This module does not hold CE credit designation.*	Supplemental	16306 (English)
Overview of the Clinical Trial Agreement (CTA)	Supplemental	17356 (English)

GCP Refresher Courses

This section presents the GCP refresher courses available to independent learners. For module descriptions, see the **GCP Catalog**.

GCP FDA Refresher*

This course is meant to reinforce the importance of concepts covered in the basic level GCP for Clinical Trials with Investigational Drugs and Medical Devices (U.S. FDA Focus) course.

*This ICH E6 GCP Investigator Site Training meets the Minimum Criteria for ICH GCP Investigator Site Personnel Training identified by TransCelerate BioPharma as necessary to enable mutual recognition of GCP training among trial sponsors. Organizations that wish to utilize this course in keeping with the minimum criteria must designate all available (FDA Focus) modules as "Required."

Learners must complete thirteen required modules with an average score of 80 percent on all quizzes to earn a completion report. One supplemental module is presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
GCP Refresher - International Conference on Harmonisation (ICH): GCP Requirements	Required	16779 (English)
GCP Refresher - Investigator's Responsibilities and GCP	Required	16780 (English)
GCP Refresher - Informed Consent	Required	16781 (English)
GCP Refresher - Safety Management	Required	16782 (English)
GCP Refresher - Investigational Product (Drug) Management	Required	16783 (English)
GCP Refresher - Audits, Inspection, and Monitoring of Research Studies	Required	16784 (English)
GCP Refresher - Sponsor Responsibilities and GCP	Required	16785 (English)
GCP Refresher - Conducting Clinical Investigations of Devices	Required	17205 (English)
GCP Refresher - Review of U.S. FDA Regulations for Investigational Devices	Required	17206 (English)
GCP Refresher - Additional GCP Standards for International Clinical Investigations of Devices	Required	17207 (English)
GCP Refresher - Informed Consent and Exceptions to the Requirement for Obtaining Consent for Clinical Investigations of Devices	Required	17208 (English)
GCP Refresher - Oversight of Clinical Investigations of Devices	Required	17209 (English)
GCP Refresher - Reporting Requirements for Clinical Investigations of Devices	Required	17210 (English)

GCP ICH Refresher

This course is meant to reinforce the importance of concepts covered in the basic level GCP for Clinical Trials with Investigational Drugs and Biologics (ICH Focus) course.

Learners must complete seven required modules with an average score of 80 percent on all quizzes to earn a completion report. One supplemental module is presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
GCP Refresher - International Conference on Harmonisation (ICH): GCP Requirements	Required	16779 (English)
GCP Refresher - Investigator's Responsibilities and GCP	Required	16780 (English)
GCP Refresher - Informed Consent	Required	16781 (English)
GCP Refresher - Safety Management	Required	16782 (English)
GCP Refresher - Investigational Product (Drug) Management	Required	16783 (English)
GCP Refresher - Audits, Inspection, and Monitoring of Research Studies	Required	16784 (English)
GCP Refresher - Sponsor Responsibilities and GCP	Required	16785 (English)

GCP Device Refresher

This course is meant to reinforce the importance of concepts covered in the basic level GCP for Clinical Investigations of Devices (U.S. FDA Focus) course. This course covers FDA regulation as well as International Organization for Standardization Guidelines ISO 14155:2011.

Learners must complete six required modules with an average score of 80 percent on all quizzes to earn a completion report. One supplemental module is presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
GCP Refresher - Conducting Clinical Investigations of Devices	Required	17205 (English)
GCP Refresher - Review of U.S. FDA Regulations for Investigational Devices	Required	17206 (English)
GCP Refresher - Additional GCP Standards for International Clinical Investigations of Devices	Required	17207 (English)
GCP Refresher - Informed Consent and Exceptions to the Requirement for Obtaining Consent for Clinical Investigations of Devices	Required	17208 (English)
GCP Refresher - Oversight of Clinical Investigations of Devices	Required	17209 (English)
GCP Refresher - Reporting Requirements for Clinical Investigations of Devices	Required	17210 (English)

GCP SBR Advanced Refresher

GCP SBR Advanced Refresher reinforces the importance of concepts covered in the basic level *GCP – Social and Behavioral Research Best Practices for Clinical Research* course. This second-level course goes in-depth on more advanced GCP concepts (for example, specific GCP issues like monitoring, audits, inspections, and data and safety monitoring), expands upon the breadth of the investigator's responsibilities, and explores topics relevant to social sciences research and behavioral trials not traditionally covered in GCP courses (such as when social behavioral research could be considered a clinical trial, social media use in research, and deception in informed consent).

Learners must complete five required modules with an average score of 80 percent on all quizzes to earn a completion report. Three supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
When a Social and Behavioral Research Study May be Considered a Clinical Trial	Required	17652 (English)
Overview of ICH E6 GCP for Behavioral Interventions and Social Science Research	Required	17653 (English)
Investigator's Role and Responsibilities in Behavioral Interventions and Social Science Research	Required	17654 (English)
Informed Consent in Behavioral Interventions and Social Science Research	Required	17655 (English)
Monitoring, Audits, Inspections, and Data and Safety Monitoring of Behavioral Interventions and Social Science Research	Required	17656 (English)
Methods and Risks in Behavioral Interventions and Social Science Research	Supplemental	17657 (English)
Social Media in Behavioral Interventions and Social Science Research	Supplemental	17658 (English)
In-Depth Review of ICH E6 and TransCelerate Minimum Requirements	Supplemental	17659 (English)

Good Laboratory Practice (GLP)

This section presents the GLP course available to independent learners. For module descriptions, see the **GLP Catalog**.

GLP Course

This course provides an overview of how nonclinical laboratory studies should be planned, performed, monitored, recorded, reported, and archived as set forth by the U.S. Food and Drug Administration (FDA), Environmental Protection Agency (EPA), and Department of Agriculture (USDA), as well as the Organisation for Economic Co-operation and Development (OECD) international guidelines.

Learners must complete fifteen required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
CITI GLP Course: Overview	Required	16778 (English)
History of the Good Laboratory Practices: A Breach of Trust	Required	16696 (English)
Here & There: U.S. and Global Regulatory Agencies	Required	16697 (English)
Let's Be Clear: Words Matter in GLP	Required	16698 (English)
Components of Compliance	Required	16701 (English)
GLP Requirements of Personnel	Required	16699 (English)
The Responsible Use of Laboratory Animals (LA) – Part 1	Required	16703 (English)
The Responsible Use of Laboratory Animals (LA) – Part 2	Required	16704 (English)
Standard Operating Procedures (SOPs) and Equipment Operation	Required	16702 (English)
Understanding Raw Data and Reconstruction	Required	16700 (English)
Required Reading: Study Protocols	Required	16705 (English)
Archiving Study Data and Specimens	Required	16708 (English)
The Quality Assurance Unit (QAU)	Required	16707 (English)
Chemicals, Test Articles, and Solutions	Required	16706 (English)
Reporting of Study Results and Regulatory Decisions on Study Disqualification	Required	16709 (English)

Healthcare Ethics Committee (HEC)

This section presents the HEC course available to independent learners. For module descriptions, see the **HEC Catalog**.

HEC Course

This course provides a focus on developing the knowledge and skill base necessary for being a successful HEC member. It is designed for current and prospective members of healthcare ethics committees (HECs).

Learners must complete seventeen required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction: Healthcare Ethics Committee (HEC) Course	Required	17023 (English)
Healthcare Ethics Committee (HEC): Definition, Mission, and Organizational Structure	Required	17024 (English)
Healthcare Ethics Committee (HEC) Membership	Required	17025 (English)
Ethical Theories and Principles for Healthcare Ethics	Required	17026 (English)
Ethical Problem Identification, Analysis, and Solving	Required	17027 (English)
Informed Consent in the Clinical Setting	Required	17028 (English)
End-of-Life Issues: Capacitated Patients	Required	17029 (English)
Advance Directives (Living Wills)	Required	17030 (English)
Decision Making for Incapacitated Patients	Required	17031 (English)
End-of-Life Issues: Cultural Issues, Medical Futility, and Resuscitation	Required	17032 (English)
End-of-Life Issues: Brain Death, Palliative Sedation, Physician-Assisted Suicide, and Other Related Issues	Required	17033 (English)
Medical Confidentiality	Required	17034 (English)
Neonatal Ethics and Maternal-Fetal Ethical Issues	Required	17035 (English)
Overview of Allocation	Required	17036 (English)
Healthcare Ethics Committee (HEC) Educational Activities and Policy Development and Review	Required	17037 (English)
Clinical Ethics Consultation: Part 1	Required	17038 (English)
Clinical Ethics Consultation: Part 2	Required	17039 (English)

Human Subjects Research (HSR)

HSR Basic Courses

This section presents the HSR basic courses available to independent learners. For module descriptions, see the **HSR Catalog**.

Biomedical Basic

This course provides an introduction to biomedical (biomed) research with a focus on the protection of human subjects. It offers historic and current information on regulatory and ethical issues important to the conduct of research involving human subjects.

Learners must complete 13 required modules and at least one elective module with an average score of 80 percent on all quizzes to earn a completion report. 42 supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Belmont Report and Its Principles	Supplemental	1127 (English)
History and Ethics of Human Subjects Subject	Required	498 (English)
Basic Institutional Review Board (IRB) Regulations and Review Process	Required	2 (English)
Informed Consent	Required	3 (English)
Social and Behavioral Research (SBR) for Biomedical Researchers	Required	4 (English)
Records-Based Research	Required	5 (English)
Genetic Research in Human Populations	Required	6 (English)
Populations in Research Requiring Additional Considerations and/or Protections	Required	16680 (English)
Research Involving Children	Required	9 (English)
FDA-Regulated Research	Required	12 (English)
Recognizing and Reporting Unanticipated Problems Involving Risks to Subjects or Others in Biomedical	Required	14777 (English)
Research and HIPAA Privacy Protections	Required	14 (English)
Cultural Competence in Research	Required	15166 (English)
Conflicts of Interest in Human Subjects Research	Required	17464 (English)
Avoiding Group Harms – U.S. Research Perspectives	Elective	14080 (English)
Avoiding Group Harms – International Research Perspectives	Elective	14081 (English)
Research Involving Prisoners	Supplemental	8 (English)
Research Involving Pregnant Women, Fetuses, and Neonates	Supplemental	10 (English)
Hot Topics	Supplemental	487 (English)

External IRB Review	Supplemental	16711 (English)
Humanitarian Use Devices (HUDs)	Supplemental	16306 (English)
International Studies	Supplemental	971 (English)
Students in Research	Supplemental	1321 (English)
The IRB Administrator's Responsibilities	Supplemental	13813 (English)
Stem Cell Research Oversight (Part I)	Supplemental	13882 (English)
Stem Cell Research Oversight (Part II)	Supplemental	14584 (English)
Research with Decisionally Impaired Subjects	Supplemental	16610 (English)
Research with Critically Ill Subjects	Supplemental	16592 (English)
Gender and Sexuality Diversity (GSD) in Human Research	Supplemental	16556 (English)
Research with Persons who are Socially or Economically Disadvantaged	Supplemental	16539 (English)
Research with Older Adults	Supplemental	16502 (English)
Illegal Activities or Undocumented Status in Human Research	Supplemental	16656 (English)
Research Involving Subjects at the End of Life	Supplemental	16658 (English)
Research with Subjects with Physical Disabilities & Impairments	Supplemental	16657 (English)
Phase I Research: Understanding Phase I Research	Supplemental	16873 (English)
Phase I Research: Protecting Phase I Subjects	Supplemental	16874 (English)
Consent and Biobanks and Associated Databases	Supplemental	17254 (English)
Consent and Cultural Competence	Supplemental	17263 (English)
Informed Consent and Incidental Findings in Research with Human Subjects	Supplemental	17342 (English)
Consent and Subject Recruitment Challenges: Therapeutic Misconception	Supplemental	17259 (English)
Consent and Subjects Who Do Not Speak English	Supplemental	17260 (English)
Consent and Subject Recruitment Challenges: Remuneration	Supplemental	16881 (English)
Consent in the 21st Century	Supplemental	17060 (English)
Consent Tools Used in Research	Supplemental	16944 (English)
Overview of the Clinical Trial Agreement (CTA)	Supplemental	17356 (English)
Understanding the Terms of the Clinical Trial Agreement (CTA)	Supplemental	17357 (English)
Role of the Researcher and Site in Managing the Clinical Trial Agreement (CTA)	Supplemental	17358 (English)
Clinical Trial Agreement (CTA) Negotiation for Researchers and Sites	Supplemental	17359 (English)

Introduction To Community-Engaged Research (CEnR)	Supplemental	16994 (English)
Introduction to Community-Based Participatory Research (CBPR)	Supplemental	16995 (English)
Ethical and Practical Considerations in Community-Engaged Research (CEnR)	Supplemental	16996 (English)
Vulnerable Subjects - Research Involving Workers/Employees	Supplemental	483 (English)
Are You Thinking About Being in a Research Study?	Supplemental	14562 (English)
Single Institutional Review Board (sIRB) Use and Administration: When Relying on a sIRB	Supplemental	17387 (English)
Single Institutional Review Board (sIRB) Use and Administration: When Serving as a sIRB of Record	Supplemental	17388 (English)
Single Institutional Review Board (sIRB) Use and Administration: Authorization Agreements	Supplemental	17392 (English)
Data and Safety Monitoring in Human Subjects Research	Supplemental	17433 (English)

Social-Behavioral-Educational Basic

This course provides an introduction to issues that arise in the context of social-behavioral-educational (SBE) research involving human subjects.

Learners must complete 13 required modules with an average score of 80 percent on all quizzes to earn a completion report. 30 supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Belmont Report and Its Principles	Supplemental	1127 (English)
History and Ethical Principles – SBE	Required	490 (English)
Defining Research with Human Subjects – SBE	Required	491 (English)
The Federal Regulations - SBE	Required	502 (English)
Assessing Risk - SBE	Required	503 (English)
Informed Consent - SBE	Required	504 (English)
Privacy and Confidentiality - SBE	Required	505 (English)
Research with Prisoners - SBE	Required	506 (English)
Research with Children - SBE	Required	507 (English)
Research in Public Elementary and Secondary Schools - SBE	Required	508 (English)
International Research - SBE	Required	509 (English)
Internet-Based Research - SBE	Required	510 (English)
Unanticipated Problems and Reporting Requirements in Social and Behavioral Research	Required	14928 (English)

Cultural Competence in Research	Required	15166 (English)
Populations in Research Requiring Additional Considerations and/or Protections	Required	16680 (English)
Research and HIPAA Privacy Protections	Supplemental	14 (English)
Hot Topics	Supplemental	487 (English)
External IRB Review	Supplemental	16711 (English)
Students in Research	Supplemental	1321 (English)
The IRB Administrator's Responsibilities	Supplemental	13813 (English)
Vulnerable Subjects – Research Involving Workers/Employees	Supplemental	483 (English)
Research with Decisionally Impaired Subjects	Supplemental	16610 (English)
Research with Critically Ill Subjects	Supplemental	16592 (English)
Gender and Sexuality Diversity (GSD) in Human Research	Supplemental	16556 (English)
Research with Persons who are Socially or Economically Disadvantaged	Supplemental	16539 (English)
Research with Older Adults	Supplemental	16502 (English)
Illegal Activities or Undocumented Status in Human Research	Supplemental	16656 (English)
Research Involving Subjects at the End of Life	Supplemental	16658 (English)
Research with Subjects with Physical Disabilities & Impairments	Supplemental	16657 (English)
Are You Thinking About Being in a Research Study?	Supplemental	14562 (English)
Consent and Subject Recruitment Challenges: Remuneration	Supplemental	16881 (English)
Consent Tools Used by Researchers	Supplemental	16944 (English)
Consent in the 21st Century	Supplemental	17060 (English)
Consent and Biobanks and Associated Databases	Supplemental	17254 (English)
Consent and Subject Recruitment Challenges: Therapeutic Misconception	Supplemental	17259 (English)
Consent with Subjects Who Do Not Speak English	Supplemental	17260 (English)
Consent and Cultural Competence	Supplemental	17263 (English)
Informed Consent and Incidental Findings in Research with Human Subjects	Supplemental	17342 (English)
Introduction To Community-Engaged Research	Supplemental	16994 (English)
Introduction to Community-Based Participatory Research (CBPR)	Supplemental	16995 (English)
Ethical and Practical Considerations in Community-Engaged Research (CEnR)	Supplemental	16996 (English)
Single Institutional Review Board (sIRB) Use and Administration: When Relying on a sIRB	Supplemental	17387 (English)

Single Institutional Review Board (sIRB) Use and Administration: When Serving as a sIRB of Record	Supplemental	17388 (English)
Single Institutional Review Board (sIRB) Use and Administration: Authorization Agreements	Supplemental	17392 (English)

IRB - Biomedical Focus

This course provides an introduction to issues that arise in the context of biomedical (biomed) research involving human subjects. It is intended for Institutional Review Board (IRB) members who review biomed research.

Learners must complete 13 required modules and at least two elective modules with an average score of 80 percent on all quizzes to earn a completion report. 54 supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Belmont Report and Its Principles	Supplemental	1127 (English)
History and Ethical Principles	Required	498 (English)
Basic Institutional Review Board (IRB) Regulations and Review Process	Required	2 (English)
Informed Consent	Required	3 (English)
Social and Behavioral Research (SBR) for Biomedical Researchers	Required	4 (English)
Records-Based Research	Required	5 (English)
Genetic Research in Human Populations	Required	6 (English)
Populations in Research Requiring Additional Considerations and/or Protections	Required	16680 (English)
Vulnerable Subjects – Research Involving Children	Required	9 (English)
Vulnerable Subjects – Research Involving Pregnant Women, Human Fetuses, and Neonates	Required	10 (English)
Research and HIPAA Privacy Protections	Required	14 (English)
Cultural Competence in Research	Required	15166 (English)
Conflicts of Interest in Human Subjects Research	Required	17464 (English)
The IRB Member Module – "What Every New IRB Member Needs to Know"	Required	816 (English)
Avoiding Group Harms – U.S. Research Perspectives	Elective	14080 (English)
Avoiding Group Harms – International Research Perspectives	Elective	14081 (English)
Recognizing and Reporting Unanticipated Problems Involving Risks to Subjects or Others in Biomedical	Elective	14777 (English)
Unanticipated Problems and Reporting Requirements in Social and Behavioral Research	Elective	14928 (English)

Vulnerable Subjects – Research Involving Prisoners	Supplemental	8 (English)
FDA-Regulated Research	Supplemental	12 (English)
History and Ethical Principles – SBE	Supplemental	490 (English)
Defining Research with Human Subjects – SBE	Supplemental	491 (English)
The Federal Regulations - SBE	Supplemental	502 (English)
Assessing Risk - SBE	Supplemental	503 (English)
Informed Consent - SBE	Supplemental	504 (English)
Privacy and Confidentiality - SBE	Supplemental	505 (English)
Research with Prisoners - SBE	Supplemental	506 (English)
Research with Children - SBE	Supplemental	507 (English)
Research in Public Elementary and Secondary Schools - SBE	Supplemental	508 (English)
International Research - SBE	Supplemental	509 (English)
Internet-Based Research - SBE	Supplemental	510 (English)
Are You Thinking About Being in a Research Study?	Supplemental	14562 (English)
Hot Topics	Supplemental	487 (English)
External IRB Review	Supplemental	16711 (English)
Humanitarian Use Devices (HUDs)	Supplemental	16306 (English)
I Have Agreed to be an IRB Community Member. Now What?	Supplemental	13018 (English)
International Studies	Supplemental	971 (English)
Students in Research	Supplemental	1321 (English)
The IRB Administrator's Responsibilities	Supplemental	13813 (English)
Vulnerable Subjects – Research Involving Workers/Employees	Supplemental	483 (English)
Stem Cell Research Oversight (Part I)	Supplemental	13882 (English)
Stem Cell Research Oversight (Part II)	Supplemental	14584 (English)
Research with Decisionally Impaired Subjects	Supplemental	16610 (English)
Research with Critically Ill Subjects	Supplemental	16592 (English)
Gender and Sexuality Diversity (GSD) in Human Research	Supplemental	16556 (English)
Research with Persons who are Socially or Economically Disadvantaged	Supplemental	16539 (English)
Research with Older Adults	Supplemental	16502 (English)
Illegal Activities or Undocumented Status in Human Research	Supplemental	16656 (English)

Research Involving Subjects at the End of Life	Supplemental	16658 (English)
Research with Subjects with Physical Disabilities & Impairments	Supplemental	16657 (English)
Introduction To Community-Engaged Research (CEnR)	Supplemental	16994 (English)
Introduction to Community-Based Participatory Research (CBPR)	Supplemental	16995 (English)
Ethical and Practical Considerations in Community-Engaged Research (CEnR)	Supplemental	16996 (English)
Phase I Research: Understanding Phase I Research	Supplemental	16873 (English)
Phase I Research: Protecting Phase I Subjects	Supplemental	16874 (English)
Consent and Biobanks and Associated Databases	Supplemental	17254 (English)
Consent and Cultural Competence	Supplemental	17263 (English)
Informed Consent and Incidental Findings in Research with Human Subjects	Supplemental	17342 (English)
Consent and Subject Recruitment Challenges: Therapeutic Misconception	Supplemental	17259 (English)
Consent and Subjects Who Do Not Speak English	Supplemental	17260 (English)
Consent and Subject Recruitment Challenges: Remuneration	Supplemental	16881 (English)
Consent in the 21st Century	Supplemental	17060 (English)
Consent Tools Used in Research	Supplemental	16944 (English)
Overview of the Clinical Trial Agreement (CTA)	Supplemental	17356 (English)
Understanding the Terms of the Clinical Trial Agreement (CTA)	Supplemental	17357 (English)
Role of the Researcher and Site in Managing the Clinical Trial Agreement (CTA)	Supplemental	17358 (English)
Clinical Trial Agreement (CTA) Negotiation for Researchers and Sites	Supplemental	17359 (English)
Single Institutional Review Board (sIRB) Use and Administration: When Relying on a sIRB	Supplemental	17387 (English)
Single Institutional Review Board (sIRB) Use and Administration: When Serving as a sIRB of Record	Supplemental	17388 (English)
Single Institutional Review Board (sIRB) Use and Administration: Authorization Agreements	Supplemental	17392 (English)
Data and Safety Monitoring in Human Subjects Research	Supplemental	17433 (English)

IRB - Social-Behavioral-Educational Focus

This course provides an introduction to issues that arise in the context of social-behavioral-educational (SBE) research involving human subjects. It is intended for Institutional Review Board (IRB) members who review SBE research.

Learners must complete 16 required modules with an average score of 80 percent on all quizzes to earn a completion report. 31=5 supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Belmont Report and Its Principles	Supplemental	1127 (English)
History and Ethical Principles – SBE	Required	490 (English)
Defining Research with Human Subjects – SBE	Required	491 (English)
The Federal Regulations - SBE	Required	502 (English)
Assessing Risk - SBE	Required	503 (English)
Informed Consent - SBE	Required	504 (English)
Privacy and Confidentiality - SBE	Required	505 (English)
Research with Prisoners - SBE	Required	506 (English)
Research with Children - SBE	Required	507 (English)
Research in Public Elementary and Secondary Schools - SBE	Required	508 (English)
International Research - SBE	Required	509 (English)
Internet-Based Research - SBE	Required	510 (English)
Unanticipated Problems and Reporting Requirements in Social and Behavioral Research	Required	14928 (English)
Cultural Competence in Research	Required	15166 (English)
Conflicts of Interest in Human Subjects Research	Required	17464 (English)
The IRB Member Module – "What Every New IRB Member Needs to Know"	Required	816 (English)
Populations in Research Requiring Additional Considerations and/or Protections	Required	16680 (English)
Research and HIPAA Privacy Protections	Supplemental	14 (English)
Hot Topics	Supplemental	487 (English)
External IRB Review	Supplemental	16711 (English)
I Have Agreed to be an IRB Community Member. Now What?	Supplemental	13018 (English)
International Studies	Supplemental	971 (English)
Students in Research	Supplemental	1321 (English)

The IRB Administrator's Responsibilities	Supplemental	13813 (English)
Vulnerable Subjects – Research Involving Workers/Employees	Supplemental	483 (English)
Research with Decisionally Impaired Subjects	Supplemental	16610 (English)
Research with Critically Ill Subjects	Supplemental	16592 (English)
Gender and Sexuality Diversity (GSD) in Human Research	Supplemental	16556 (English)
Research with Persons who are Socially or Economically Disadvantaged	Supplemental	16539 (English)
Research with Older Adults	Supplemental	16502 (English)
Illegal Activities or Undocumented Status in Human Research	Supplemental	16656 (English)
Research Involving Subjects at the End of Life	Supplemental	16658 (English)
Research with Subjects with Physical Disabilities & Impairments	Supplemental	16657 (English)
History and Ethics of Human Subjects Research	Supplemental	498 (English)
Avoiding Group Harms – U.S. Research Perspectives	Supplemental	14080 (English)
Avoiding Group Harms – International Research Perspectives	Supplemental	14081 (English)
Consent and Biobanks and Associated Databases	Supplemental	17254 (English)
Consent and Cultural Competence	Supplemental	17263 (English)
Informed Consent and Incidental Findings in Research with Human Subjects	Supplemental	17342 (English)
Consent and Subject Recruitment Challenges: Therapeutic Misconception	Supplemental	17259 (English)
Consent and Subjects Who Do Not Speak English	Supplemental	17260 (English)
Consent and Subject Recruitment Challenges: Remuneration	Supplemental	16881 (English)
Consent in the 21st Century	Supplemental	17060 (English)
Consent Tools Used in Research	Supplemental	16944 (English)
Introduction To Community-Engaged Research (CEnR)	Supplemental	16994 (English)
Introduction to Community-Based Participatory Research (CBPR)	Supplemental	16995 (English)
Ethical and Practical Considerations in Community-Engaged Research (CEnR)	Supplemental	16996 (English)
Are You Thinking About Being in a Research Study?	Supplemental	14562 (English)
Single Institutional Review Board (sIRB) Use and Administration: When Relying on a sIRB	Supplemental	17387 (English)
Single Institutional Review Board (sIRB) Use and Administration: When Serving as a sIRB of Record	Supplemental	17388 (English)
Single Institutional Review Board (sIRB) Use and Administration: Authorization Agreements	Supplemental	17392 (English)

IRB - Biomedical and Social-Behavioral-Educational Combined

This course provides an introduction to issues that arise in the context of biomedical (biomed) and social-behavioral-educational (SBE) research involving human subjects. It is intended for Institutional Review Board (IRB) members who review both biomed and SBE research.

Learners must complete at least 16 elective modules with an average score of 80 percent on all quizzes to earn a completion report. 38 supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Belmont Report and Its Principles	Supplemental	1127 (English)
History and Ethical Principles	Elective	498 (English)
Basic Institutional Review Board (IRB) Regulations and Review Process	Elective	2 (English)
Informed Consent	Elective	3 (English)
Social and Behavioral Research (SBR) for Biomedical Researchers	Elective	4 (English)
Records-Based Research	Elective	5 (English)
Genetic Research in Human Populations	Elective	6 (English)
Populations in Research Requiring Additional Considerations and/or Protections	Elective	16680 (English)
Vulnerable Subjects – Research Involving Prisoners	Elective	8 (English)
Vulnerable Subjects – Research Involving Children	Elective	9 (English)
Vulnerable Subjects – Research Involving Pregnant Women, Human Fetuses, and Neonates	Elective	10 (English)
Avoiding Group Harms – U.S. Research Perspectives	Elective	14080 (English)
Avoiding Group Harms – International Research Perspectives	Elective	14081 (English)
FDA-Regulated Research	Elective	12 (English)
Recognizing and Reporting Unanticipated Problems Involving Risks to Subjects or Others in Biomedical	Elective	14777 (English)
Research and HIPAA Privacy Protections	Elective	14 (English)
History and Ethical Principles – SBE	Elective	490 (English)
Defining Research with Human Subjects – SBE	Elective	491 (English)
The Federal Regulations - SBE	Elective	502 (English)
Assessing Risk - SBE	Elective	503 (English)
Informed Consent - SBE	Elective	504 (English)
Privacy and Confidentiality - SBE	Elective	505 (English)
Research with Prisoners - SBE	Elective	506 (English)

Research with Children - SBE	Elective	507 (English)
Research in Public Elementary and Secondary Schools - SBE	Elective	508 (English)
International Research - SBE	Elective	509 (English)
Internet-Based Research - SBE	Elective	510 (English)
Unanticipated Problems and Reporting Requirements in Social and Behavioral Research	Elective	14928 (English)
Cultural Competence in Research	Elective	15166 (English)
Conflicts of Interest Human Subjects Research	Elective	17464 (English)
Hot Topics	Elective	487 (English)
I Have Agreed to be an IRB Community Member. Now What?	Elective	13018 (English)
The IRB Member Module – "What Every New IRB Member Needs to Know"	Elective	816 (English)
Vulnerable Subjects – Research Involving Workers/Employees	Elective	483 (English)
Humanitarian Use Devices (HUDs)	Supplemental	16306 (English)
External IRB Review	Supplemental	16711 (English)
International Studies	Supplemental	971 (English)
Students in Research	Supplemental	1321 (English)
The IRB Administrator's Responsibilities	Supplemental	13813 (English)
Stem Cell Research Oversight (Part I)	Supplemental	13882 (English)
Stem Cell Research Oversight (Part II)	Supplemental	14584 (English)
Research with Decisionally Impaired Subjects	Supplemental	16610 (English)
Research with Critically Ill Subjects	Supplemental	16592 (English)
Gender and Sexuality Diversity (GSD) in Human Research	Supplemental	16556 (English)
Research with Persons who are Socially or Economically Disadvantaged	Supplemental	16539 (English)
Research with Older Adults	Supplemental	16502 (English)
Illegal Activities or Undocumented Status in Human Research	Supplemental	16656 (English)
Research Involving Subjects at the End of Life	Supplemental	16658 (English)
Research with Subjects with Physical Disabilities & Impairments	Supplemental	16657 (English)
Consent and Biobanks and Associated Databases	Supplemental	17254 (English)
Consent and Cultural Competence	Supplemental	17263 (English)
Informed Consent and Incidental Findings in Research with Human Subjects	Supplemental	17342 (English)

Consent and Subject Recruitment Challenges: Therapeutic Misconception	Supplemental	17259 (English)
Consent and Subjects Who Do Not Speak English	Supplemental	17260 (English)
Consent and Subject Recruitment Challenges: Remuneration	Supplemental	16881 (English)
Consent in the 21st Century	Supplemental	17060 (English)
Consent Tools Used in Research	Supplemental	16944 (English)
Introduction To Community-Engaged Research (CEnR)	Supplemental	16994 (English)
Introduction to Community-Based Participatory Research (CBPR)	Supplemental	16995 (English)
Ethical and Practical Considerations in Community-Engaged Research (CEnR)	Supplemental	16996 (English)
Are You Thinking About Being in a Research Study?	Supplemental	14562 (English)
Phase I Research: Understanding Phase I Research	Supplemental	16873 (English)
Phase I Research: Protecting Phase I Subjects	Supplemental	16874 (English)
Overview of the Clinical Trial Agreement (CTA)	Supplemental	17356 (English)
Understanding the Terms of the Clinical Trial Agreement (CTA)	Supplemental	17357 (English)
Role of the Researcher and Site in Managing the Clinical Trial Agreement (CTA)	Supplemental	17358 (English)
Clinical Trial Agreement (CTA) Negotiation for Researchers and Sites	Supplemental	17359 (English)
Single Institutional Review Board (sIRB) Use and Administration: When Relying on a sIRB	Supplemental	17387 (English)
Single Institutional Review Board (sIRB) Use and Administration: When Serving as a sIRB of Record	Supplemental	17388 (English)
Single Institutional Review Board (sIRB) Use and Administration: Authorization Agreements	Supplemental	17392 (English)
Data and Safety Monitoring in Human Subjects Research	Supplemental	17433 (English)

IRB Chair

This course is intended for current and future chairs of Institutional Review Boards (IRBs). It provides detailed training in regards to their role and responsibilities, meeting responsibilities, and role outside of the IRB meeting.

Learners must complete three required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Role and Responsibilities of an IRB Chair	Required	15386 (English)
IRB Chair Meeting Responsibilities	Required	15387 (English)
The IRB Chair's Role Outside of the IRB Meeting	Required	15388 (English)
Single Institutional Review Board (sIRB) Use and Administration: When Relying on a sIRB	Supplemental	17387 (English)
Single Institutional Review Board (sIRB) Use and Administration: When Serving as a sIRB of Record	Supplemental	17388 (English)
Single Institutional Review Board (sIRB) Use and Administration: Authorization Agreements	Supplemental	17392 (English)

Institutional/Signatory Official: HSR Course

This course provides a general introduction for institutional officials (IOs) in a variety of organizations – biomedical, behavioral, social sciences, and others, as well as a variety of organizational structures – academic medical centers, colleges and universities, independent IRBs, research sites, and others. It introduces the learner to the roles and responsibilities of the IO, including the regulatory role and expectations, obligations imposed on the organization by the Federalwide Assurance (FWA), and functions that are part of the human research protections program (HRPP).

Learners must complete four required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Being an Institutional Official (IO)	Required	16640 (English)
IO Knowledge Requirements: Human Subject Protections	Required	16641 (English)
Expectations of the IO	Required	16642 (English)
Challenges of Being an IO: Human Subject Protections	Required	16643 (English)
Single Institutional Review Board (sIRB) Use and Administration: When Relying on a sIRB	Supplemental	17387 (English)
Single Institutional Review Board (sIRB) Use and Administration: When Serving as a sIRB of Record	Supplemental	17388 (English)
Single Institutional Review Board (sIRB) Use and Administration: Authorization Agreements	Supplemental	17392 (English)

Essentials of Public Health Research

This course provides an overview of the structure and function of public health systems, differentiates research and practice, and reviews consent and ethical issues for public health researchers. It supplements the foundational training provided in a basic Human Subjects Research (HSR) course (either Biomedical or Social-Behavioral-Educational).

Learners must complete four required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Public Health Research	Required	17637 (English)
Public Health Research and Public Health Practice	Required	17638 (English)
Informed Consent and Confidentiality in Public Health Research	Required	17639 (English)
Ethical Issues in Public Health Research	Required	17640 (English)

Revised Common Rule Course

This course helps the research community understand the revisions to the Common Rule issued on 19 January 2017 and set to take effect in July 2018. This preparation course identifies and examines the regulatory changes to 45 CFR 46, Subpart A, “Federal Policy for the Protection of Human Subjects” (the Common Rule).

Learners must complete ten required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Overview of the Final Rule Revisions	Required	17909 (English)
New and Revised Definitions	Required	17910 (English)
Informed Consent - Changes and Additions to Consent Processes	Required	17911 (English)
Informed Consent - Changes to the Documentation of Consent	Required	17912 (English)
Understanding Broad Consent	Required	17913 (English)
Secondary Research with Identifiable Information and Biospecimens	Required	17914 (English)
Effect of Revised Common Rule on Research Roles	Required	17915 (English)
Updates to Exemption Categories	Required	17916 (English)
Limited IRB Review	Required	17917 (English)
Updates to Expedited Review Procedures	Required	17918 (English)

HSR Refresher Courses

This section presents the HSR refresher courses available to independent learners. For module descriptions, see the **HSR Catalog**.

Biomedical (Biomed) Refresher 1

This Refresher 1 course highlights important concepts from the Human Subjects Research – Biomedical (Biomed) basic course. It covers historical and current information on regulatory and ethical issues important to the conduct of research involving human subjects. It also explores topics with added depth to retrain learners on key points from the basic course.

Learners must complete 14 required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Biomed Refresher 1 – Instructions	Required	960 (English)
Biomed Refresher 1 – History and Ethical Principles	Required	975 (English)
Biomed Refresher 1 – Regulations and Process	Required	981 (English)
Biomed Refresher 1 – Informed Consent	Required	980 (English)
Biomed Refresher 1 – SBR Methodologies in Biomedical Research	Required	982 (English)
Biomed Refresher 1 – Records-Based Research	Required	983 (English)
Biomed Refresher 1 – Genetics Research	Required	984 (English)
Biomed Refresher 1 – Populations in Research Requiring Additional Considerations and/or Protections	Required	985 (English)
Biomed Refresher 1 – Research Involving Prisoners	Required	973 (English)
Biomed Refresher 1 – Research Involving Children	Required	974 (English)
Biomed Refresher 1 – Research Involving Pregnant Women, Fetuses, and Neonates	Required	986 (English)
Biomed Refresher 1 – FDA-Regulated Research	Required	987 (English)
Biomed Refresher 1 – Research and HIPAA Privacy Protections	Required	17261 (English)
Biomed Refresher 1 – Conflicts of Interest in Human Subjects Research	Required	17544 (English)

Biomedical (Biomed) Refresher 2

This Refresher 2 course reviews key issues from the Human Subjects Research – Biomedical (Biomed) Basic course. It expands on topics covered in the basic course through summarizing the most important points from the foundational basic course. It also provides in-depth condensed retraining for human subjects protections.

Learners must complete 14 required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Biomed Refresher 2 – Instructions	Required	764 (English)
Biomed Refresher 2 – History and Ethical Principles	Required	511 (English)
Biomed Refresher 2 – SBR Methodologies in Biomedical Research	Required	515 (English)
Biomed Refresher 2 – Records-Based Research	Required	516 (English)
Biomed Refresher 2 – Genetics Research	Required	518 (English)
Biomed Refresher 2 – Populations in Research Requiring Additional Considerations and/or Protections	Required	519 (English)
Biomed Refresher 2 – Regulations and Process	Required	512 (English)
Biomed Refresher 2 – Research Involving Prisoners	Required	520 (English)
Biomed Refresher 2 – Research Involving Children	Required	521 (English)
Biomed Refresher 2 – Research Involving Pregnant Women, Fetuses, and Neonates	Required	522 (English)
Biomed Refresher 2 – Informed Consent	Required	514 (English)
Biomed Refresher 2 – FDA-Regulated Research	Required	524 (English)
Biomed Refresher 2 – Research and HIPAA Privacy Protections	Required	526 (English)
Biomed Refresher 2 – Conflicts of Interest in Human Subjects Research	Required	17545 (English)

Biomedical (Biomed) Refresher 3

This Refresher 3 course summarizes the essential points from the Human Subjects Research – Biomedical (Biomed) basic course that are most important to the conduct of research involving human subjects. Short, condensed content focuses on practical issues in human subjects protection for the experienced learner.

Learners must complete 13 required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Biomed Refresher 3 – Instructions	Required	12631 (English)
Biomed Refresher 3 – History and Ethical Principles – Research vs. Practice	Required	993 (English)
Biomed Refresher 3 – History and Ethical Principles – Belmont Principles	Required	12640 (English)
Biomed Refresher 3 – Regulations and Process – IRB Authority and Composition	Required	12644 (English)
Biomed Refresher 3 – Regulations and Process – IRB Responsibilities	Required	12645 (English)
Biomed Refresher 3 – Informed Consent	Required	1003 (English)
Biomed Refresher 3 – Genetics Research	Required	12633 (English)
Biomed Refresher 3 – SBR Methodologies in Biomedical Research	Required	1004 (English)
Biomed Refresher 3 – Populations in Research Requiring Additional Considerations and/or Protections	Required	12643 (English)

Biomed Refresher 3 – Research Involving Prisoners	Required	12647 (English)
Biomed Refresher 3 – Research Involving Children	Required	12648 (English)
Biomed Refresher 3 – Research Involving Pregnant Women, Fetuses, and Neonates	Required	12649 (English)
Biomed Refresher 3 – Research and HIPAA Privacy Protections	Required	17265 (English)
Biomed Refresher 3 – Conflicts of Interest in Human Subjects Research	Required	17546 (English)

Social-Behavioral-Educational (SBE) Refresher 1

This Refresher 1 course highlights important concepts from the Human Subjects Research – Social-Behavioral-Educational (SBE) basic course. It covers historical and current information on regulatory and ethical issues important to the conduct of research involving human subjects. It also explores topics with added depth to retrain learners on key points from the basic course.

Learners must complete 11 required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
SBE Refresher 1 – Instructions	Required	943 (English)
SBE Refresher 1 – History and Ethical Principles	Required	936 (English)
SBE Refresher 1 – Federal Regulations for Protecting Research Subjects	Required	937 (English)
SBE Refresher 1 – Defining Research with Human Subjects	Required	15029 (English)
SBE Refresher 1 – Informed Consent	Required	938 (English)
SBE Refresher 1 – Assessing Risk	Required	15034 (English)
SBE Refresher 1 – Privacy and Confidentiality	Required	15035 (English)
SBE Refresher 1 – Research with Prisoners	Required	939 (English)
SBE Refresher 1 – Research with Children	Required	15036 (English)
SBE Refresher 1 – Research in Educational Settings	Required	940 (English)
SBE Refresher 1 – International Research	Required	15028 (English)

Social-Behavioral-Educational (SBE) Refresher 2

This Refresher 2 course reviews key issues from the Human Subjects Research – Social-Behavioral-Educational (SBE) basic course. It expands on topics covered in the basic course through summarizing the most important points from the foundational basic course. Provides in-depth condensed retraining for human subjects protections.

Learners must complete 11 required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)

SBE Refresher 1 – Instructions	Required	12629 (English)
SBE Refresher 1 – History and Ethical Principles	Required	12702 (English)
SBE Refresher 1 – Federal Regulations for Protecting Research Subjects	Required	15040 (English)
SBE Refresher 1 – Defining Research with Human Subjects	Required	15038 (English)
SBE Refresher 1 – Informed Consent	Required	12620 (English)
SBE Refresher 1 – Assessing Risk	Required	12624 (English)
SBE Refresher 1 – Privacy and Confidentiality	Required	12622 (English)
SBE Refresher 1 – Research with Prisoners	Required	12627 (English)
SBE Refresher 1 – Research with Children	Required	15043 (English)
SBE Refresher 1 – Research in Educational Settings	Required	15042 (English)
SBE Refresher 1 – International Research	Required	15045 (English)

Biomedical and Social-Behavioral-Educational Combined Refreshers

This course provides summaries of the important concepts covered in the Biomedical (Biomed) and Social-Behavioral-Educational (SBE) basic courses. It is intended to provide retraining for a learner who has already completed a basic course.

Learners must complete at least 12 elective modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Biomed Refresher 1 – Instructions	Elective	960 (English)
Biomed Refresher 1 – History and Ethical Principles	Elective	975 (English)
Biomed Refresher 1 – Regulations and Process	Elective	981 (English)
Biomed Refresher 1 – Informed Consent	Elective	980 (English)
Biomed Refresher 1 – SBR Methodologies in Biomedical Research	Elective	982 (English)
Biomed Refresher 1 – Records-Based Research	Elective	983 (English)
Biomed Refresher 1 – Genetics Research	Elective	984 (English)
Biomed Refresher 1 – Research Involving Vulnerable Subjects	Elective	985 (English)
Biomed Refresher 1 – Research Involving Prisoners	Elective	973 (English)
Biomed Refresher 1 – Research Involving Children	Elective	974 (English)
Biomed Refresher 1 – Research Involving Pregnant Women, Fetuses, and Neonates	Elective	986 (English)
Biomed Refresher 1 – FDA-Regulated Research	Elective	987 (English)
Biomed Refresher 1 – Research and HIPAA Privacy Protections	Elective	17261 (English)
SBE Refresher 1 – Instructions	Elective	943 (English)
SBE Refresher 1 – History and Ethical Principles	Elective	936 (English)
SBE Refresher 1 – Federal Regulations for Protecting Research Subjects	Elective	937 (English)
SBE Refresher 1 – Defining Research with Human Subjects	Elective	15029 (English)

SBE Refresher 1 – Informed Consent	Elective	938 (English)
SBE Refresher 1 – Assessing Risk	Elective	15034 (English)
SBE Refresher 1 – Privacy and Confidentiality	Elective	15035 (English)
SBE Refresher 1 – Research with Prisoners	Elective	939 (English)
SBE Refresher 1 – Research with Children	Elective	15036 (English)
SBE Refresher 1 – Research in Educational Settings	Elective	940 (English)
SBE Refresher 1 – International Research	Elective	15028 (English)

Information Privacy and Security (IPS)

This section presents the IPS course available to independent learners. For module descriptions, see the **IPS Catalog**.

Health Privacy

This course provides modules from the Health Privacy and Information Security track in the IPS series.

Learners must complete the modules with an average score of 80 percent on all quizzes to earn a completion report. Four supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Basics of Health Privacy	Required	1417 (English)
Health Privacy Issues for Clinicians	Supplemental	1418 (English)
Health Privacy Issues for Fundraisers	Supplemental	1421 (English)
Health Privacy Issues for Marketers	Supplemental	1422 (English)
Health Privacy Issues for Researchers	Supplemental	1419 (English)
Health Privacy Issues for Students and Instructors	Supplemental	1420 (English)

Information Security

This course provides modules from the Health Privacy and Information Security track in the IPS series.

Learners must complete the modules with an average score of 80 percent on all quizzes to earn a completion report. Nine supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Basics of Information Security, Part 1	Required	1423 (English)
Basics of Information Security, Part 2	Required	1424 (English)
Safer Emailing and Messaging, Part 1	Supplemental	1429 (English)
Safer Emailing and Messaging, Part 2	Supplemental	1430 (English)
Safer Web Surfing	Supplemental	1431 (English)
Security for Work/Workers Off-Site	Supplemental	1433 (English)
Picking and Protecting Passwords	Supplemental	1449 (English)
Safer Social Networking	Supplemental	15873 (English)
Protecting Your Computer	Supplemental	1425 (English)
Protecting Your Portable Devices	Supplemental	1427 (English)
Protecting Your Identity	Supplemental	1428 (English)

Family Educational Rights and Protection Act (FERPA)

This course provides modules from the FERPA track in the IPS series.

Learners must complete three required modules with an average score of 80 percent on all quizzes to earn a completion report. 6 supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
FERPA: An Introduction	Required	17407 (English)
FERPA for Instructors	Supplemental	17408 (English)
FERPA for Students	Supplemental	17409 (English)
FERPA for Researchers	Supplemental	17410 (English)
FERPA for Institutional Review Boards (IRBs)	Supplemental	17411 (English)
FERPA for Educational Administrators	Supplemental	17412 (English)

IRB Administration

This section presents the IRB Administration course available to independent learners. For module descriptions, see the **IRB Administration Catalog**.

IRB Administration

This course provides members of an Institutional Review Board's (IRB) administrative office (administrators, directors, coordinators, and other support staff) with a comprehensive review of the critical areas associated with IRB and IRB office operations.

Learners must complete five required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
HRPP/IRB Policies and Procedures	Required	16503 (English)
Reporting to Federal Agencies	Required	16593 (English)
Communicating with Subjects	Required	16668 (English)
Internal Quality Assurance and Quality Improvement of the HRPP	Required	16678 (English)
External Oversight of the HRPP/IRB: Monitoring and Inspections	Required	16679 (English)
Single Institutional Review Board (sIRB) Use and Administration: When Relying on a sIRB	Supplemental	17387 (English)
Single Institutional Review Board (sIRB) Use and Administration: When Serving as a sIRB of Record	Supplemental	17388 (English)
Single Institutional Review Board (sIRB) Use and Administration: Authorization Agreements	Supplemental	17392 (English)

Research Study Design

This section presents the Research Study Design course available to independent learners. For module descriptions, see the **Research Study Design Catalog**.

Research Study Design Course

Provides individuals with an introduction to scientific research, a detailed overview and examples of various research designs, and a discussion of data management and the reproducibility of research results.

Learners must complete all required modules with an average score of 80 percent on all quizzes to earn a completion report. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to Scientific Research	Required	17581 (English)
Observational Research	Required	17582 (English)
Interventional Research	Required	17583 (English)
Quantitative Research (Statistical Reasoning and Hypothesis Testing) – Part 1	Required	17584 (English)
Quantitative Research (Statistical Reasoning and Hypothesis Testing) – Part 2	Required	17585 (English)
Survey Research: Designing the Instrument	Required	17586 (English)
Survey Research: Conducting the Research	Required	17587 (English)
Qualitative Research Methods	Required	19101 (English)
Mixed Methods Research	Required	17588 (English)
Data Management	Required	16600 (English)
Reproducibility of Research Results	Required	17756 (English)

Responsible Conduct of Research (RCR)

RCR Basic Course

This section presents the RCR basic course available to independent learners. For module descriptions, see the **RCR Catalog**.

RCR Basic

This course covers the core norms, principles, regulations, and rules governing the practice of research. It is designed for students, faculty, postdoctoral researchers, principal investigators, and staff.

Learners must complete twelve required modules with an average score of 80 percent on all quizzes to earn a completion report. Four supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Introduction to RCR (RCR-Basic)	Required	17009 (English)
Authorship (RCR-Basic)	Required	16597 (English)
Collaborative Research (RCR-Basic)	Required	16598 (English)
Conflicts of Interest (RCR-Basic)	Required	16599 (English)
Data Management (RCR-Basic)	Required	16600 (English)
Financial Responsibility (RCR-Basic)	Required	16601 (English)
Mentoring (RCR-Basic)	Required	16602 (English)
Peer Review (RCR-Basic)	Required	16603 (English)
Plagiarism (RCR-Basic)	Required	15156 (English)
Research Involving Human Subjects (RCR-Basic)	Required	13566 (English)
Research Misconduct (RCR-Basic)	Required	16604 (English)
Using Animal Subjects in Research (RCR-Basic)	Required	13301 (English)
Environmental and Social Dimensions of Engineering Research (RCR)	Supplemental	12835 (English)
Export Controls and National Security (RCR)	Supplemental	14770 (English)
Research, Ethics, and Society (RCR)	Supplemental	15198 (English)
Reproducibility of Research Results	Supplemental	17756 (English)

RCR Refresher Course

This section presents the RCR refresher course available to independent learners. For module descriptions, see the **RCR Catalog**.

RCR Refresher

This course is intended to provide retraining for a learner who has already completed a basic RCR course. It can help expand a learner's knowledge about topics that were presented in the basic level modules.

Learners must complete seven required modules with an average score of 80 percent on all quizzes to earn a completion report. Two supplemental modules are presented, which may be reviewed at the learner's discretion. This course has a one-year expiration period.

Module Title	Recommended Use	ID (Language)
Authorship (RCR-Refresher)	Required	15661 (English)
Collaborative Research (RCR-Refresher)	Required	15662 (English)
Conflicts of Interest (RCR-Refresher)	Required	15663 (English)
Data Management (RCR-Refresher)	Required	15664 (English)
Peer Review (RCR-Refresher)	Required	15665 (English)
Research Misconduct (RCR-Refresher)	Required	15666 (English)
Mentoring (RCR-Refresher)	Required	15667 (English)
Research Involving Human Subjects (RCR-Refresher)	Supplemental	15668 (English)
Using Animal Subjects in Research (RCR-Refresher)	Supplemental	15669 (English)