Responsible Conduct in Research (RCR) training is required for all students in the MSU College of Osteopathic Medicine (MSUCOM). RCR topics covered address the responsibilities of MSUCOM students in both basic biomedical and clinical research during the four year curriculum. Face-to-face instruction developed by MSUCOM basic research, clinical research, administrative and support faculty/staff will be used. This will be complemented by MSU IRB (Institutional Review Board) training and CITI (Collaborative Institutional Training Initiative) online modules. Completion of the required training and online modules is tracked for each student by the MSUCOM Office of Student Services. Directions for access and registration for the IRB and CITI online modules is presented below.

YEAR 1:
~5 hours of RCR Training
Face-to-face Instruction:
1 hour Introduction to RCR and Briefing Seminar; 1.5 hour IRB session on Human Research Topics; 1 hour ORCBS session on Universal Precautions
Online learning:
MSU IRB online Introductory Tutorial training module: "What you need to know about the protection of human subjects of Research"
MSUCOM HIPAA introduction module
CITI Modules:
Introduction to the Responsible Conduct of Research Module; Research Misconduct Module; Case study: Plagiarism

YEAR 2:
3 hours of RCR training
Face to face Instruction:
1 hour IRB session on Human Research Topics
Online learning:
MSUCOM HIPAA training module
ORCBS Blood Borne Pathogen training
CITI modules (all modules listed are to be completed):
Data Acquisition and Management
Foundation text and embedded quizzes
Case study: Share and share alike
Case study: Who owns research data?
Using Animal Subjects in Research

YEAR 3:
3 hours of RCR training
MSU IRB refresher modules:
IRB online re-training module
Complete 6 modules out of the following:
- Avoiding Group Harms: U.S. Research Perspectives (ID: 14080)
- Unanticipated Problems/Reporting Requirements in Biomedical Research (ID: 14777)
- History and Ethical Principles - SBR (ID: 490)
- History and Ethical Principles (ID: 498)
- Defining Research with Human Subjects - SBR (ID: 491)
- The Regulations and The Social and Behavioral Sciences - SBR (ID: 502)
- Basic Institutional Review Board (IRB) Regulations and Review Process (ID: 2)
- Assessing Risk in Social and Behavioral Sciences - SBR (ID: 503)
- Informed Consent - SBR (ID: 504)
- Informed Consent (ID: 3)
- Privacy and Confidentiality - SBR (ID: 505)
- Social and Behavioral Research for Biomedical Researchers (ID: 4)
- Records-Based Research (ID: 5)
- Genetic Research in Human Populations (ID: 6)
- Research with Protected Populations - Vulnerable Subjects: An Overview (ID: 7)
- Research with Prisoners - SBR (ID: 506)
- Vulnerable Subjects - Research Involving Prisoners (ID: 8)
- Research with Children - SBR (ID: 507)
- Vulnerable Subjects - Research Involving Children (ID: 9)
- Research in Public Elementary and Secondary Schools - SBR (ID: 508)
- Vulnerable Subjects - Research on Pregnant Women, Fetuses, and Neonates (ID: 10)
- International Research - SBR (ID: 509)
- International Studies (ID: 971)
- Internet Research - SBR (ID: 510)
- FDA-Regulated Research (ID: 12)
- Human Subjects Research at the VA (ID: 13)
- Research and HIPAA Privacy Protections (ID: 14)
- Vulnerable Subjects - Research Involving Workers/Employees (ID: 483)

**YEAR 4:**
3 hours of RCR training

**CITI Modules:**
Responsible Conduct of Research with Human Subjects
Mentor and Trainee Responsibilities
Conflicts of Interest and Commitment and Case Studies
Case Study: The Case of the Promising New Technology
Case Study: The Case of the Entrepreneurial Clinician
Collaborative Research and Science Module

**Directions for IRB Online Training Modules Registration:**
- Log on to: [http://www.humanresearch.msu.edu/](http://www.humanresearch.msu.edu/) (Use MSU A-PID and e-mail address when signing in)
- Click “Education” tab
- Select “Web Modules”
- For Year 1 RCR select “MSU IRB Tutorial”
• Continue to Investigator Login and click “I’m New” if not registered
• For Year 3 RCR select “CITI online course in the protection of Human Research Subjects” refresher course

**Directions for CITI Online Module Registration:**

• Log On to: [https://www.citiprogram.org/](https://www.citiprogram.org/) (Use MSU e-mail address when signing in)
• Click: New Users “Register Here”
• Under the “Participating Institutions” drop-down menu, select “Michigan State University (MSU)” and click “Submit”
• Create a username and password and click “Submit”
• Enter the requested information (first, last names) and click “Submit”
• Enter the requested information (contact info, ) and click “Submit”
• Click on link “Continue to Question #1 at this time”
• For Year #1: Scroll down to Question #3, RCR Enrollment and click RCR for COM students- INITIAL TRAINING
• For Year #2-4: Scroll down to Question #3, RCR Enrollment and click RCR for COM students- ANNUAL UPDATE
MSU-COM RCR Checklist:

YEAR 1: ~5 hours of RCR training
-Face-to-face Instruction:
  - 1 hour Introduction to RCR and Briefing Seminar (Amalfitano)
  - ~1.5 hour IRB session on Human Research Topics
  - 1 hour ORCBS session on Universal Precautions

-Online learning:
  - MSU IRB Introductory module: "What you need to know about the protection of human subjects of research"
  - MSUCOM HIPAA introduction module
- CITI (Collaborative Institutional Training Initiative) Modules:
  - Introduction to the Responsible Conduct of Research Module -
    - Research Misconduct Module
  - Case study: Plagiarism

YEAR 2: 3 hours of RCR training
-Face-to-face learning:
  - 1 hour IRB session on Human Research Topics

-Online learning:
  - MSUCOM HIPAA training module
  - ORCBS Blood Borne Pathogen training
- CITI modules:
  - Data Acquisition and Management - Foundation text and quizzes
  - Case study: Share and share alike
  - Case study: Who owns research data
  - Using Animal Subjects in Research

YEAR 3: 3 hours of RCR training
-MSU IRB refresher modules: Complete 6 modules out of the following:
  - Avoiding Group Harms: U.S. Research Perspectives (ID: 14080)
  - Unanticipated Problems/Reporting Requirements in Biomedical Research (ID: 14777)
  - History and Ethical Principles - SBR (ID: 490)
  - Defining Research with Human Subjects - SBR (ID: 491)
  - The Regulations and The Social and Behavioral Sciences - SBR (ID: 502)
  - Basic Institutional Review Board (IRB) Regulations and Review Process (ID: 2)
  - Assessing Risk in Social and Behavioral Sciences - SBR (ID: 503)
  - Informed Consent - SBR (ID: 504)
  - Informed Consent (ID: 3)
  - Privacy and Confidentiality - SBR (ID: 505)
  - Social and Behavioral Research for Biomedical Researchers (ID: 4)
  - Records-Based Research (ID: 5)
  - Genetic Research in Human Populations (ID: 6)
  - Research With Protected Populations - Vulnerable Subjects: An Overview (ID: 7)
  - Research with Prisoners - SBR (ID: 506)
  - Vulnerable Subjects - Research Involving Prisoners (ID: 8)
  - Research with Children - SBR (ID: 507)
  - Vulnerable Subjects - Research Involving Children (ID: 9)
  - Research in Public Elementary and Secondary Schools - SBR (ID: 508)
  - Vulnerable Subjects - Research on Pregnant Women, Fetuses, and Neonates (ID: 10)
  - International Research - SBR (ID: 509)
MSU-COM RCR Checklist:

- International Studies (ID: 971)
- Internet Research - SBR (ID: 510)
- FDA-Regulated Research (ID: 12)
- Human Subjects Research at the VA (ID: 13)
- Research and HIPAA Privacy Protections (ID: 14)
- Vulnerable Subjects - Research Involving Workers/Employees (ID: 483)

**YEAR 4: 3 hours of RCR training**

**CITI Modules:**

- Responsible Conduct of Research with Human Subjects
- Mentor and Trainee Responsibilities
- Conflicts of Interest and Commitment and Case Studies
- Case Study: The Case of the Promising New Technology
- Case Study: The Case of the Entrepreneurial Clinician
- Collaborative Research and Science Module