### Table A1: Community Research Fellows Training (CRFT) Program Course Syllabus

By the end of this session, Fellows should be able to meet the following learning objectives:

#### Session 1: Community Health
- Define Public Health
- Define Community Health
- Identify contributing factors that impact the health of a community
- Describe community health activities
- Describe the Healthy People 2020 initiative
- Assess the need for a program

#### Session 2 Topic I: Research Methods
- Define research
- Describe the steps of the research process
- Identify and explain research methodology
- Identify appropriate research methods and techniques

#### Session 2 Topic II: Data
- Define data
- Compare and contrast quantitative and qualitative data
- Compare and contrast primary data and secondary data

#### Session 3 Topic I: Public Health Research
- Define public health research
- Identify and explain types of research
- Identify and explain types of research methods
- Explain why research is important
### Session 3 Topic II: Health Disparities
- Define health disparities
- Identify major health disparities in the St. Louis including those by gender, race/ethnicity, geographic location, and socioeconomic status
- Understand and provide example of causes of health disparities with respect to prevention, incidence and mortality
- Discuss the social determinants of health
- Describe public health strategies and interventions for reducing health disparities

### Session 4 Topic I: Public Health Library Resources-Becker Medical Library
- Understand public resources available at Becker Medical Library
- Describe library sources useful for public health research

### Session 4 Topic II: Health Literacy
- Define health literacy
- Understand the limited literacy perspective
- Describe the association between literacy and health
- Describe health literacy on a national scale
- Discuss current WUSTL research on health literacy

### Session 5 Topic I: Cultural Competency
- Define cultural competency
- Describe the need for culturally competent research and practice based on a historical perspective
- Identify contributing risk factors for health disparities
- Identify skills associated with cultural competent practices
- Conduct cultural competency self-assessment

### Session 5 Topic II: Program Evaluation
- Develop SMART goals for programs and projects
- Identify culturally competent evaluation approaches
- Understand the importance of evaluation

### Session 6 Topic I: Introduction to Epidemiology
- Define Epidemiology
- Identify major contributions of epidemiology
- Identify frameworks for understanding disease processes
- Compare and contrast observational studies vs. clinical trials

### Session 6 Topic II: Evidence Based Public Health/ Community Based Prevention
- Define Evidence Based Public Health
- Discuss methods for community based prevention
Session 7: Quantitative Methods

- Identify strengths and weakness of quantitative methods
- Describe strengths of mixed methods approaches
- Describe stages of questionnaire design
- Identify sampling methods
- Understand usefulness of statistics in health research
- Understand p-values and odds ratios

Session 8: Community Based Participatory Research

- Describe history and principles of CBPR
- Critically evaluate their own position within their community(ies) and their potential roles within CBPR projects
- Describe methods to ensure that CBPR research benefits all partners
- Lessons Learned from CBPR projects
- CBPR efforts in St. Louis

Session 9: Research Ethics I

- Define research ethics and bioethics
- Compare and contrast clinical ethics vs. research ethics
- Identify examples of unethical practices in research
- Understand ethical theories and professional ethical duties

Session 9 Topic II: Research Ethics II

- Understand ethical theories and professional ethical duties
- Identify historical milestones in ethics
- Understand the Belmont Report
- Understand NIH – IRB Protocol Review Standards

Session 10: Qualitative Methods

- Define basic principles of qualitative research methods
- Describe the characteristics of qualitative research
- Describe the advantages and disadvantages of qualitative methods
- Understand and distinguish between different types of qualitative approaches
- Facilitate qualitative interviews and focus groups
- Understand the relationship between qualitative and quantitative research methods
- Discern when a qualitative research design is desirable

Session 11 Topic I: Clinical Trials

- Understand clinical trials research
- Describe the role of clinical trials research in advancing medical practice
- Discuss the impact of minority participation in clinical trials research

Session 11 Topic II: Bio-banking

- Define bio-repository
- Describe the type of research conducted from bio-repository data
- Discuss the risks and benefits of minority participation in bio-repositories
Session 12 Topic I: Health Policy Research

- Define health policy and health services research
- Identify and develop relevant well framed health policy research questions
- Describe public use and other common data sources for health policy research

Session 12 Topic II: Human Subjects Certification- Part I

- Participants will be certified in the conduct of human subjects research
- Conduct an informed consent process to recruit a participant in a research study
- Develop a humans subjects and HIPPA compliant research proposal

Workshop 1 Topic I: Research Synthesis

- Describe the research process
- Identify the components of research design
- Develop a conceptual model
- Develop a research hypothesis
- Conduct a literature review

Workshop 1 Topic II: Research Evaluation

- Develop an evaluation plan for a research project or proposal
- Determine appropriate evaluation metrics and measures

Workshop 2 Topic I: Human Subjects Certification- Part II

- Participants will be certified in the conduct of human subjects research
- Conduct an informed consent process to recruit a participant in a research study
- Develop a humans subjects and HIPPA compliant research proposal

Workshop 2 Topic II: History of Healthcare in St. Louis

- Respond to the Request for Proposal (RFP)
- Development of pilot project ideas

Workshop 3 Topic I: Family Health History

- Understand importance of collecting and maintaining a family health history
- Understand the role of family health history in healthcare
- Complete a family health history chart

Workshop 3 Topic II: Grant Writing

- Understand grant guidelines and requirements
- Understand the power of collaboration for grant writing
- Develop SMART goals and Specific Aims
- Define a project and develop a research plan
- Develop a collaborative grant proposal including background and significance, specific aims, preliminary studies, research design and methods