**Pharmacy Learning Objectives**  
**Teaching Scholars Summer Institute 2018**

**Day One, Monday, June 4, 2018**  
ACPE UAN: 0072-9999-18-061-L04-P (AM Session – 4 contact hours)  
ACPE UAN: 0072-9999-18-062-L04-P (PM Session – 2.75 contact hours)  
ACPE UAN: 0072-9999-18-063-L04-P (Simulation Session - 3:00-6:00 PM - 3 contact hours)

8:30 – 9:30 am  **Survey Research (Knowledge-based)**  
**Presenter:** Lesley E. Cottrell, PhD  
- Identify and understand the individual components of survey research.  
- Distinguish between types of surveys.  
- Identify design issues (+/-).  
- Discuss differences between reliable and valid survey methods.  
- Describe how to apply survey research principles to real world ideas.

9:30 – 10:30 am  **Flipping the Classroom: The What, Why and How of Flip Teaching (Knowledge-based)**  
**Presenter:** Tara Whetsel, PharmD, BCACP, BC-ADM  
- Describe flip teaching.  
- Discuss the potential advantages of a flipped classroom.  
- Describe the steps involved in developing a flipped classroom.  
- Describe how team based learning can be incorporated into a flipped classroom.

10:30 – 10:45 am  **Break**

10:45 – 11:45 am  **Clinical Teaching (Knowledge-based)**  
**Presenter:** Rashida Khakoo, MD, MACP  
- Discuss the importance of clinical teaching.  
- Discuss various effective methods of teaching in clinical settings.  
- Discuss opportunities and challenges of clinical teaching.

11:45 – 12:45 pm  **Rubrics (Knowledge-based)**  
**Presenters:** Marie Abate, PharmD  
- Describe the types and key components of a rubric.  
- Discuss the potential advantages with the use of rubrics as learning and assessment tools  
- Describe the steps involved in developing and modifying a rubric  
- Discuss how to construct a rubric to meet an identified student learning/assessment need

12:45 – 1:45 pm  **Lunch**

1:45 – 3:00 pm  **Inter-Professional Education (Knowledge-based)**  
**Presenter:** Gina Baugh, PharmD  
- Discuss multiple aspects of Interprofessional Education (IPE), including advantages of IPE and collaborative practice (Ex. HealthCare Reform and the need for more provider types, lower costs, and improved patient care).  
- Describe the four Interprofessional competencies developed by the WVU IPE Workgroup.  
- Discuss techniques to address the barriers and challenges to IPE in teaching (ex. Schedules; course credit)
3:00 – 4:30 p.m.  **Summer Institute Mini-Lesson (Application-based)**
**Presenter:** Anna Lama, MA
- Plan and perform a 10 minute lesson on how to build a paper airplane.
- Discuss and analyze teaching modalities related to lesson plan development.

3:00 – 6:00 pm  **WV Simulation Training and Education for Patient Safety (STEPS) - LEVEL ONE**
**Simulation Scholars Only (Application-based)**
**Presenters:** WV STEPS: Christy Barnhart, MSN, RN, Jason Craig, CHSE, Russell Doerr, CHSE Adam Hoffman, Christopher Kiefer, MD, FACEP, Lee Ann Miller, EdD, CHSE, Dorian Williams, MD, CHSE
- Identify measurable learning objectives and identify complete case scenarios.
- Explain why assessment is important when planning simulation and identify assessment techniques including LMS.
- Identify opportunities for simulating real-world situations of the health professions.
- Given 4 modalities of simulation, differentiate their purposes.
- Integrate modality knowledge in hands-on exercises.
Day Two, Tuesday, June 5, 2018

Feedback (Knowledge-based)
Presenter: Rashida Khakoo, MD, MACP
- Distinguish between feedback and evaluation.
- Describe the importance of feedback as part of any educational endeavor.
- Discuss the importance of feedback in improvement of learning experiences.
- Discuss giving and receiving feedback.

Qualitative Research Methods (Knowledge-based)
Presenter: Danielle M. Davidov, PhD
- Describe three qualitative research methods.
- Identify research questions that are appropriate to the various qualitative methods.
- Discuss the concept of methodological rigor in qualitative research methods.

Intergenerational Conflict and Educational Strategy (Knowledge-based)
Presenter: Jonathan M. Kline, PharmD
- Describe some of the historical and cultural differences between generations involved in education and learning today.
- Identify the formative events for the current generations and how those events led to their particular qualities.
- List potential obstacles and identify solutions to address communication with millennial students.

Large Group Teaching (Knowledge-based)
Presenter: Mark Paternostro, PhD
- Identify new ways of teaching
- Identify strategies for teaching large groups.
- State fundamental concepts of neurobiology as it relates to teaching and learning - “Brain Rules.”
- Describe how to apply Gagne's "Nine Events of Instruction" to lecture Development.
- Discuss teaching strategies to consider when lecturing to large groups.
- Discuss methods to make large group teaching more personal and more effective.

The Fundamentals of Simulation and Modalities - ALL Scholars (Application-based)
Presenters: WV STEPS: Christy Barnhart, MSN, RN, Jason Craig, CHSE, Russell Doerr, CHSE Adam Hoffman, Christopher Kiefer, MD, FACEP, Lee Ann Miller, EdD, CHSE, Dorian Williams, MD, CHSE
- Identify opportunities for simulating real-world situations of the health professions.
- Given 4 modalities of simulation (partial task trainers, high fidelity manikin simulators, virtual reality simulators, and standardized patients), differentiate their purposes, and apply their knowledge learned in hands-on exercises.

WV Simulation Training and Education for Patient Safety (STEPS) - LEVEL ONE
Simulation Scholars Only (Knowledge Based)
Presenters: WV STEPS: Christy Barnhart, MSN, RN, Jason Craig, CHSE, Russell Doerr, CHSE Adam Hoffman, Christopher Kiefer, MD, FACEP, Lee Ann Miller, EdD, CHSE, Dorian Williams, MD, CHSE
- Discuss methods of providing feedback in a debriefing session.
Day Three, Wednesday, June 6, 2018

8:00 – 9:00 am  Writing Multiple Choice Questions (Knowledge-based)
    Presenter: Christopher J. Martin, MD, MSc
    - Contrast and compare the relative advantages and disadvantages of different assessment Methodologies.
    - Describe the elements of a single best-answer multiple choice question.
    - Identify common item writing flaws.
    - Describe how to construct high-quality single best-answer multiple choice question.
    - Discuss how to interpret the results of item analysis to judge the performance single best-answer multiple choice question and determine whether or not such items should be rejected or retained in an examination.

9:00 – 10:00 am  Quantitative Research Methods (Knowledge-based)
    Presenter: Alfgeir L. Kristjansson, PhD
    - Explain the philosophical prerequisites for quantitative research.
    - Compare and contrast the strengths and applicability of different study designs.

10:00 – 10:15 am  Break

10:15 – 11:15 am  Implementing the Scholarship of Teaching and Learning (Knowledge-based)
    Presenter: Scott Cottrell, EdD
    - Discuss how participants can clarify their research question.
    - Discuss study designs that will be useful in answering various research questions.

11:15 – 12:15 pm  Quest for Best in Online Teaching & Learning (Knowledge-based)
    Presenters: Erin Kelley, JD, Lydia Mong, MA
    - Identify best practices for effective online teaching and learning.
    - Identify practical applications for implementing best practices.
    - Describe how to locate information about further training pertinent to those best practices.

12:15 – 1:00 pm  Lunch

1:00 – 2:30 pm  Sampling and Estimation (Knowledge-based)
    Presenter: Scott Cottrell EdD
    - List the types of probability samples.
    - Identify the types of non-probability samples.
    - Discuss sampling distribution.
    - State the best approaches to estimating population parameters

2:30 – 3:30 pm  The World’s Worst Lecture (Knowledge-based)
    Presenter: Chris Terpening, Ph.D., PharmD, BCACP, CGP
    - Describe the positive/negative aspects of developing a lecture, including AV aids and handouts.

3:45 – 6:00 pm  WV Simulation Training and Education for Patient Safety (STEPS) - LEVEL ONE
    Simulation Scholars Only (Application-based)
    Presenters: WV STEPS: Christy Barnhart, MSN, RN, Jason Craig, CHSE, Russell Doerr, CHSE
              Adam Hoffman, Christopher Kiefer, MD, FACEP, Lee Ann Miller, EdD, CHSE, Dorian Williams, MD, CHSE
    - Perform the role of a learner in a simulation activity and participate in a guided debriefing activity.
    - Construct 2-3 objectives for chest pain event with manikin and 3rd year nursing student.
Day Four, Thursday, June 7, 2018

ACPE UAN: 0072-9999-18-070-L04-P (AM Session - 4 contact hours)
ACPE UAN: 0072-9999-18-071-L04-P (PM Session – 2.75 contact hours)
ACPE UAN: 0072-9999-18-072-L04-P (Simulation Session 8.00 – 12:00 AM – 3.75 contact hours)
ACPE UAN: 0072-9999-18-073-L04-P (Simulation Session 1.00 – 5:00 PM – 3.75 contact hours)

8:00 –10:00 am Rubrics Workshop (Application-based)
Presenter: Marie Abate, PharmD
- Develop a comprehensive rubric in one of the following areas:
  - Professionalism/Leadership
  - Critical thinking/Problem-solving
  - Teamwork/Interprofessional collaboration
- Describe the criteria to use to evaluate the quality of a rubric.
- Analyze a rubric and provide feedback for improvement where appropriate.

10:00 – 10:15am Break

10:15 – 12:15pm Interprofessional Education: You are the Champion (Application-based)
Presenters: Gina Baugh, PharmD, Amy Kurowski-Burt , MOT, OTR/L, Kimeran Evans, DPT, PT, Adam Hoffman, Amy Summers
- Identify the essential components of an effective interprofessional team.
- Describe the need for a problem statement and a purpose statement when developing an interprofessional a project/program.
- Describe the role of educational theories in interprofessional project development
- Develop learning objectives and outcomes for interprofessional projects.
- Discuss debriefing strategies for interprofessional projects.

12:15 – 1:15 pm Lunch

1:15 – 2:15pm Quantitative Study Design Exercises (Application-based)
Presenter: Alfgeir L. Kristjansson, PhD
Define and defend a quantitative research study design for a given research question.

2:15 – 3:15pm How to Find and Fix Flawed Questions (Application-based)
Presenter: Christopher J. Martin, MD, MSc
- Identify, discuss and modify writing flaws in multiple choice questions.
- Analyze and discuss statistical performance parameters used for multiple choice questions.
- Judge whether or not multiple choice questions should be rejected or edited and retained in an examination.

Simulation Scholars Only (Application-Based)
8:00 am – 12:00 pm WV Simulation Training and Education for Patient Safety (STEPS) – Level Two (15 minute break included)
Presenters: WV STEPS: Christy Barnhart, MSN, RN, Jason Craig, CHSE, Russell Doerr, CHSE
Adam Hoffman, Christopher Kiefer, MD, FACEP, Lee Ann Miller, EdD, CHSE, Dorian Williams, MD, CHSE
- Review, select, and hone objectives homework and introduce design theory.
- Choose a tool for assessing learner’s progress and/or competency; utilize multiple assessment modalities to triangulate observations; List assessment modalities to determine instructor efficacy.
- Integrate knowledge of simulation modalities and write a case scenario that outlines the details of a learning activity.
- Construct open ended questions related to the simulation experience; select appropriate debriefing methods for the simulation experience; demonstrate techniques to monitor progress of debriefing.
12:00 – 1:00 pm  Lunch

1:00 p.m. – 5:00 pm  Level Two Session Continued (15 minute break included)
• Construct open ended questions related to the simulation experience; select appropriate debriefing methods for the simulation experience; demonstrate techniques to monitor progress of debriefing.
• Administer a simulation with simulated learners.
Day Five, Friday, June 9, 2018
ACPE UAN: 0072-9999-18-074-L04-P (AM Session – 4 contact hours)
ACPE UAN: 0072-9999-18-075-L04-P (PM Session – 2.25 contact hours)
ACPE UAN: 0072-9999-18-076-L04-P (Simulation Session 8.00 – 12:00 AM – 3.75 contact hours)
ACPE UAN: 0072-9999-18-077-L04-P (Simulation Session 1.00 – 5:00 PM – 3.75 contact hours)

8:00 – 10:00 am  Scientific Writing (Application-based)
Presenter: Bernard Schreurs, PhD
- Explore common barriers to scholarly/scientific writing.
- Describe strategies and methods to motivate yourself and start writing process.
- Propose ideas to facilitate developing an outline for your planned manuscript.
- Discuss different types of manuscript structures, such as Original Research, Brief Reports, Case Reports, etc.
- Discuss ways to identify potential journals for manuscript submission.

10:00 – 10:15 am  Break

10:15 am – 12:15 pm  How to Enjoy Increasing Your Scholarly Activities and Building Your National Reputation
(Application-based)
Presenter: H. Wayne Lambert, PhD
- Illustrate ways to find your niche in academics to derive satisfaction and enjoyment from your career.
- Distinguish between opportunities and pitfalls in an academic career.
- Demonstrate the steps needed to have success in the Promotion and Tenure process.
- Initiate discussions on finding your passion and developing your scholarship around this activity.
- Recognize that your careers goals constantly change and list ways to adapt to these internal and external pressures.

12:15 – 1:15 pm  Lunch

1:15 – 2:15 pm  Qualitative Analysis Exercises (Application-based)
Presenters: Danielle M. Davidov, PhD
- Discuss and formulate through exercises qualitative methods.

2:15 – 3:30 pm  Wrap Up “What Did we learn and what will we do differently?” (Knowledge-based)
Presenter: Rashida Khakoo, MD, MACP
- Discuss pertinent applications of the learning from the previous week.
- Identify insights they plan to share in their own institutions.

Simulation Scholars Only
8:00 am – 12:00 pm  WV Simulation Training and Education for Patient Safety (STEPS) – Level Three (Application-based)
(15 minute break included)
Presenters: WV STEPS: Christy Barnhart, MSN, RN, Jason Craig, CHSE, Russell Doerr, CHSE, Adam Hoffman, Christopher Kiefer, MD, FACEP, Lee Ann Miller, EdD, CHSE, Dorian Williams, MD, CHSE
- Discover the intricacies of utilizing technologies to set up and perform a manikin or task training educational scenario; utilize lifesavers and other troubleshooting techniques.
- Discuss the impetus and curriculum development of a 4 year ultrasound program.

12:00 – 1:00 pm  Lunch

1:00 p.m. – 5:00 pm  Level Three Session Continued (Application-Based) (15 minute break included)
- Observe video based problem situations; discuss solutions to problem situations.
- Determine good sources of funding; assure institutional buy in and faculty support; participate in Q/A with panel of experts.
The West Virginia University School of Pharmacy (WVUSoP) is accredited by the Accreditation Council for Pharmacy Education (ACPE) as a provider of continuing pharmacy education (CPE). This program, ACPE UAN: 0072-9999-18-061-L04-P to 0072-9999-18-077-L04-P, is approved for up to 39.5 contact hours (3.95 CEU’s) of CPE. Each morning and afternoon session has been awarded a specific number of CPE hours. The total number of hours per day is listed at the beginning of the pharmacy insert for each day. WVUSoP will report your participation in the program to NABP CPE Monitor within 4-6 weeks for all participants who successfully complete each session. Successful completion includes: attending the entire session (partial credit will not be given), signing the attendance sheet and completing an online evaluation form for each session attended. A transcript of your CPE credit may be printed from your NABP CPE monitor account. If you need a statement of credit, you can print one by assessing your personal account in the WVUSoP database at https://pharmacyce.wvu.edu/user/login.

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