**Course Schedule:**

**Sunday:**

Welcome 4:15 PM

* Basic MR Imaging Review – Part 1- T1, T2, relative proton density (RPD) 4:30 PM – 6:00 PM

BREAK 6:00 PM - 6:10 PM

* Basic MR Imaging Review – Part 2 - TR, TE, Computer Simulation Review 6:10 PM - 7:00 PM

End of Session 7:00 PM

**Monday:**

* Review of gradient echo MR imaging: The role of TR, Flip Angle 7:00 AM - 8:20 AM

BREAK 8:20 AM - 8:30 AM

* Review of gradient echo MR imaging: TE vs. T2\*, how to successfully 8:30 AM - 9:30 AM

 Achieve T1, T2\*, and or proton density weighting

* Question and Answer Session 9:30 AM -9:45 AM

End of Session 9:45 AM

SKI BREAK

* Inversion Recovery Imaging and its Variants, Parts 1 & 2 4:30 PM - 5:30 PM

BREAK 5:30 PM - 5:40 PM

* Inversion Recovery Imaging and its Variants, Parts 1 & 2 (cont’d) 5:40 PM - 7:00 PM
* Question and Answer Session 7:00 PM - 7:15 PM

End of Session 7:15 PM

**Tuesday:**

* MR Safety: Part 1: Overview, ACR Guidelines 7:00 AM - 7:50 AM

BREAK 7:50 AM - 8:00 AM

* MR Safety: Part 2: ESRD, Gadolinium and NSF 8:00 AM - 9:30 AM
* Question and Answer Session 9:30 AM – 9:45 AM

End of Session 9:45 AM

SKI BREAK

* Artifacts, Part 1 4:30 PM - 5:30 PM

 Fat saturation, water saturation, chemical shift artifact, magnetization transfer imaging

BREAK 5:30 PM - 5:40 PM

* Artifacts, Part 2 5:40 PM – 7:00 PM

 Truncation artifact, fat-water edge enhancement artifact, fat saturation failure

* Question and Answer Session 7:00 PM -7:15 PM

End of Session 7:15 PM

**Wednesday:**

* MR Contrast Agents 7:00 AM - 7:50 AM

BREAK 7:50 AM - 8:00 AM

* High relaxivity GBCA and Associated Sequence Optimization Techniques 8:00 AM - 9:30 AM
* Question and Answer Session 9:30 AM -9:45 AM

End of Session 9:45 AM

SKI BREAK

**Wednesday:**

* Diffusion/Perfusion Weighted MRI: Part 1 4:30 PM - 5:30 PM

BREAK 5:30 PM - 5:40 PM

* Diffusion/Perfusion Weighted MRI: Part 2 5:40 PM – 7:00 PM
* Question and Answer Session 7:00 PM -7:15 PM

End of Session 7:15 PM

**Thursday:**

* Summary of Principles, Techniques and Uses of MRA 7:00 AM - 7:50 AM

BREAK 7:50 AM - 8:00 AM

* MR Spectroscopy 8:00 AM - 9:30 AM
* Question and Answer Session 9:30 AM -9:45 AM

End of Session/Course 9:45 AM