# INTRO/LEVEL 1

**NUCCA Protocol – JOHNSON**
This class will clearly lay out step by step what is considered NUCCA treatment protocols including but not limited to supine leg check, anatometer postural readings, thermography assessment, adjusting steps, x-ray taking and analysis and even NUCCA approved equipment.

**Intro to Biomechanics I and II – FLORY/SHERWOOD**
This class serves as an introduction to the biomechanics of the NUCCA protocol. Its focus is on the concept of the condylar-axial relationship and how this important factor influences frontal plane movement at the craniocervical junction.

**4 Elements – FLORY/F. SESKER/SHERWOOD**
This class will be an overview of the NUCCA biomechanics, explaining the 4 elements that comprise the height vector and the purpose of each.

**Structural Analysis Part I – LAPENSKI/F. SESKER**
Overview x-ray analysis, height vector, rotation vector, and torque. Criteria for good films and examples of unacceptable films. Specific analysis on the lateral x-ray and the points on the vertex x-ray.

**Structural Analysis Part 2 – LAPENSKI/F. SESKER**
Analysis of the nasium x-ray. Establishing points and line drawing. Calculating the height vector and combining it with the rotation vector.

**Film Quality – LAPENSKI**
Participants will learn when to use which filters to get the best image for each film. They will find out what to look for to determine if they have good quality images. Participants will discover how to change mAs and filter combinations to get the crispest films. They will learn what doctors are looking for to pass films for certification. Discussion of atlas position, head rotation and proper S factors.

**Introduction to Adjusting I and II - JOHNSON**
The 8 phases and 27 individual steps of the NUCCA adjustment. Explain each phase and step so doctors understand what is accomplishing with each step. Practice drills with individual feedback on performance

**Image Positioning – ZABELIN**
A level one class beginning with a power point presentation on the requirements and procedures in correct patient placement for the NUCCA views. The remainder of the class will be practical, with live demonstration and attending DCs and students setting classmates for the views.

**Leg Check - FORAN**
Review the protocol and hands on experience for the supine leg check portion of the examination.

**Headpiece Placement - FITZPATRICK**
Lecture, demonstration and participation providing an understanding and practical application in the use of the mastoid headpiece.

**S-line Basic Class – SHERWOOD**
This class will be an introduction of the purpose of the S-Line, how to draw it, and how to then properly take a Nasium radiograph. It will briefly review how to tell what S-Line a Nasium view was taken at.

# INTERMEDIATE/LEVEL 2

**Intermediate Biomechanics - PACKER**
Basic Types with the resistances encountered and what to do to with LOD and Mastoid Support to overcome those resistances as a review for the first part of the Class followed by Pre-and Post-Case studies. If I get enough Type 1's I will show the variations and how the Biomechanics changes.

**X-ray Analysis - YARDLEY**
Pre-analyzed x-rays will be distributed to participants (without the solution) to perform a detailed analysis and proposed biomechanical solution. A reference library of the cases with analysis and biomechanical solution will be available. This will then be reviewed by a certified doctor with the textbook solution available to compare. This is a workshop to further develop case analysis to a more intermediate to advanced level.

**Instrumentation – YARDLEY/FORAN**
This class will be exploring Instrumentation as it applies to the Upper Cervical Practice. Specifically, Thermography and the Anatometer for the purposes of monitoring the Atlas Subluxation Complex. We will be discussing the "Break" system of analysis and the use of Pattern Analysis. We will be reviewing the history of the development of the Anatometer and what the metrics really represent and how that translates into the management of the case.

**Adjusting Phases Part I - READ**
This class is designed to help doctors learn how to develop and practice the adjusting portion of the NUCCA procedure.  This part will involve hands on learning and practicing the initial adjusting phases in small groups with certified instructors.

**Review of Cases - FLORY**
Doctors are encouraged to bring radiographs with them of cases from their practice for review and discussion on case management and how to obtain a better reduction of the ASC.

**Digital X-ray Analysis – LAPENSKI**
Honing your digital xray analysis skills

**The Craniocervical Junction – SCHOLTEN**

*Overview: The CCJ*

- Anatomy, Biomechanics, Neurophysiology, Advanced Imaging (MRI, CBCT),
- CCJ Examination & Integrative care considerations.

*Learning Objectives:*

- Sharpen understanding of basic principles of the CCJ anatomy, biomechanics, neurology, and neurophysiology.
- Enhance knowledge of when to utilize Advanced Imaging of the CCJ and how to interpret results.
- Deliver overview examination recommendations to allow enrollee's to recognize when there may be other variables that may need to be investigated and tools for monitoring ASC reduction.
- Develop understanding regarding interdisciplinary care recognition and execution.

**Adjusting Phases Part II – LAPENSKI**

This class will cover detailed aspects of the 8 adjusting phases of the NUCCA protocol.  It will involve classroom overview and description as well as practical breakouts with certified doctors to work in small group breakouts.

**Working Through Cases – LAPENSKI**

This course covers reviewing many x-rays and having the participants discover common obstacles to excellent image quality.  It will also incorporate biomechanical discussions and theory as well as headpiece placement relative to the subluxation and its reduction.

## LEVEL 2 AND 3 COMBINED

**Research Overview – YARDLEY**

This class summarizes ongoing UCRF funded research projects.  Presentations include results of ongoing projects as they apply to reliability and validity of NUCCA assessments, fine-tuning of the NUCCA protocol, and improvements in providing NUCCA patient care as a result of conducted research.

Objectives:

- To understand the importance of research to the sustainability of the NUCCA organization.
- To understand how research findings can be translated to improving patient care and achieving better patient outcomes.

**Standards Update – FLORY/LAPENSKI**

This class will review any updates to the standards and protocol of the National Upper Cervical Chiropractic Association (NUCCA).

**Keys to Certification – LAPENSKI**
How to create mastery within patient care, overcoming the most common roadblocks in Certification.

**Clinical Practice Panel – YARDLEY/FITZPATRICK/SHERWOOD/SESKER**
This will consist of 4 Board Certified doctors, representing 4 generations to address a series of questions that pertains to the technical aspects of day to day NUCCA practice. We will accept pre-submitted questions from the floor as well as prepared questions from the panel themselves.

**NUCCA Documentation – PACKER**
This class will teach the NUCCA doctors how to document what we do based on the three phases of healing and how to explain to third parties (private insurance, Medicare, personal injury) what we do and how to document it properly, so our care will be clinically supported in the language that 3$^{rd}$ parties can understand and accept as meeting the standards of care.

**Philosophy of NUCCA – FLORY/ERICKSON/TAYAL**
This class will review philosophical principles related to the practice of NUCCA

# ADVANCED/LEVEL 3

**Advanced Imaging – ZABELIN**
This class offers insight into aspects of image quality, from alignment to patient placement, to filtration, and covers digital components as well as analog. Attending DCs are encouraged to bring images from practice for evaluation and constructive ways to improve quality and consistency. Concepts in digital x-ray will be discussed as well.

**Advanced Adjusting-Tricep Pull – FLORY**
This class will focus on practical development of the triceps pull motor skill

**Concepts of Advanced Imaging – DICKHOLTZ, Jr.**
This class will highlight specific techniques for the upper cervical practitioner addressing the complexity of x-ray imaging, x-ray analysis of normal and miss shape in the structures. Additional information will be presented regarding specific techniques that will increase the practitioner's performance while adjusting of the C-1 subluxation.

**Advanced Headpiece Placement - YARDLEY**
This class will look deeper into how we are using the head as a biomechanical advantage in the reduction of the subluxation. For example, we will try and answer the question are we really positioning the head the way we think we are?

**Advanced Biomechanics – YARDLEY**
X-rays and schematic presentation of the out of pattern four basic types will be reviewed. Unusual cases with difficult concepts in biomechanics, lever systems and headpiece will be presented. The student will understand the most common difficulties in correcting each of the

four basic types.  In some cases, two- part correction mechanics will be presented with expectation outcomes will be discussed

**Biomechanics of BT I – READ**
Dr. Barbara Read will be presenting examples of Basic Type 1 misalignment patterns and lead a discussion on the best way to address them.  These patterns can be common in our practices, but often present challenges in correcting them.  We will discuss head piece placement, vector selection, torque and contact point.  This hour will be an open discussion, a time to learn with the advanced doctors present.

**Biomechanics of BT IV – STOCKWELL**
Type 4 biomechanics are nothing to fear or be concerned about when you understand proper headpiece balance and support. Class time is divided between a review of type 4 biomechanics and techniques to determine the best placement of the head on the headpiece support. A knowledge of the biomechanics is elementary, but understanding the balance point will make type 4 misalignments collapse much easier than you think

**Advanced Adjusting - Yardley**
This class will take the participant beyond the the 8 phases and 28 steps in the Triceps Pull Adjustment. We will be developing drills and perspectives designed to leverage the mastery of these basic phases and steps to an even greater understanding of controlling the adjustive forces to facilitate more complete corrections on the most difficult cases."