

SYLLABUS

ORT 661 - CLINICAL ORTHODONTICS

COURSE DIRECTOR: DR. KLUEMPER

COURSE DESCRIPTION

This course offers seminar and clinical instruction in orthodontic theory and practice.

COURSE OBJECTIVES

1. The student will be "capable of delivering competent clinical service for all ages and types of patients." (Standard 5.4.2 - Commission on Dental Accreditation, 1991: "The student must attain the ability to develop appropriate treatment plans and carry out well-documented clinical orthodontic treatment in a variety of patients with simple and complex problems, including young children, teenagers and adults. These patients must include those who have periodontal problems, those who have reconstructive problems, and those who have dentofacial abnormalities that may require orthognathic surgery.")

Implementation:

- a) **Each first year graduate student will be assigned approximately 42 patients (7 faculty with 6 or more patients each). Additional patients may be assigned in the second year.**

- b) Each student will be responsible to present as many as possible of their finished cases at the Friday morning case conferences. These cases are to be presented **and graded** according to ABO standards. Such grading and specific evaluation should be discussed during the presentation. Attempts should be made to select cases from the different ABO categories. **The categories, as they are listed now are:**

-Early treatment, starting in primary dentition or mixed, completed in the permanent dentition (this category may be difficult to complete in time to present);

-Adult, non-growing, non-surgical with periodontal or restorative needs, requiring significant diagnostic and biomechanical skills;

-Class I malocclusion with dental alveolar protrusions or open or deep bite or significant arch length deficiency;

-Class II, division 2 with deep overbite;

-Class II, division 1 with high mandibular angle ($FMA \geq 30$, $SN-GoGn \geq 37$);

-Class II, division 1 with significant mandibular arch length deficiency;

-Severe skeletal discrepancy, A-P or vertical;

-Significant transverse discrepancy requiring full appliance treatment.

Students will be responsible to monitor case load and notify Clinic Supervisor of assignment needs so that faculty can be notified.

- c) Cases will be presented to the attending and other students prior to final treatment plan approval. This will be done according to a schedule arranged by each attending. The objectives and protocol for these presentations will be as follows:
Note: Second semester, third year residents in good academic standing will be excused from treatment planning sessions, pending approval from respective attending faculty.
- i. **Patient Introduction:** Familiarize audience with patient (review findings of exam as extraoral and intraoral slides are shown);
 - ii. **Records:** Present detailed findings of records evaluation (casts, radiographs) in format following data base form and cephalometric form (it would be appropriate to hand out copies of cephalometric analysis);
 - iii. **Diagnosis and Treatment Plan:** Present summary of diagnostic summary, treatment options, and specific treatment plan (appropriate to distribute copies of diagnostic summary and treatment plan).
- d) Cases will be presented to all faculty and students during the Friday morning seminars according to the schedule listed later in this syllabus. The objectives and protocol for these presentations will be as follows:
- i. **Patient Introduction:** Familiarize audience with patient as he/she presented at the beginning of treatment. Please edit the findings of your exam to present the factors important to diagnosis (review findings of exam as extraoral and intraoral slides are shown).
 - ii. **Records:** Present findings of records evaluation (for lateral ceph, summarize findings while tracing is being projected; be prepared to give detailed measurements if queried);
 - iii. **Problem List:** Project the problem list; focus on the summary of each plane of space and possible solutions.

*The course director or attending may elect at this time to direct a discussion of treatment options before you present the treatment you pursued.
 - iv. **Treatment Objectives**
 - v. **Treatment Plan:** Present your detailed mechanical treatment plan including, where appropriate, free-body diagrams.
 - vi. **Summary of Treatment:** Briefly summarize the course of treatment, highlighting variations from your plan and unexpected response. Use photos

when available.

- vii. **Patient Update:** Present progress records (photos, panelipse, composite of lateral cephs, and summary of progress ceph) and compare to initial records as appropriate.
- viii. **Current Problem List and Detailed Mechanical Plan:** Present as outlined above. If time allows, we will entertain a discussion of treatment options.

- 2. The student will maintain patient records that "evidence thoroughness of diagnosis, treatment planning and treatment" (Standard 5.6.2 - Commission on Dental Accreditation, 1991).

COURSE EVALUATION

- 1. Competence in patient care will be assessed:
 - a. As many completed cases as possible must be presented and graded according to the standards of the American Board of Orthodontics during the third year of the program. These will be presented in Case Conference and ABO grading and overall evaluation of treatment is to be included in presentation. The criteria for competency will be:
 - i. Thoroughness of diagnosis and treatment planning;
 - ii. Quality of treatment and understanding of factors that influenced outcome.
 - b. Students will be asked to present cases (third-year students - finished cases; second-year students - progress cases) to the department on a rotating basis. The criteria for competency will be:
 - i. Thoroughness of diagnosis and treatment planning;
 - ii. Quality of treatment and understanding of factors that influenced outcome.

PLEASE NOTE conference focus: These presentations are substituting for your comprehensive exams. We will be evaluating your ability to diagnose and treatment plan independently. With this in mind, please choose cases that demonstrate a significant amount of treatment since your last faculty-approved treatment plan. These presentations are to be uncoached by faculty. In addition, please select cases that are interesting and complex enough to generate instructive discussions.

Presentation format: Please prepare all of your material so that it can be presented in Power Point.

Forms are available to provide feedback. A sample is attached at the end of this syllabus.

- c. Preparation of each treatment plan for each attending will be assessed according to

the criteria of that attending. Unless otherwise stated, the criteria for competency will be:

- i. Thoroughness of diagnosis and treatment planning;
 - ii. Understanding of factors that may influence outcome.
- d. **Competency in daily patient care will be assessed by each attending according to the criteria stated on the Daily Student Clinical Evaluation Form (see the Clinic manual).**
2. **Progress in delivering competent clinical service will be assessed in the following way:**
- a. **Daily student clinical evaluations will represent a significant portion of the grade for this course (see the clinic manual). One or more unsatisfactory daily clinical evaluations can be grounds for suspension of clinical privileges. Missed clinical duties will be completed after the end of the academic year.**
 - b. **A passing grade in this course will not be given until successful completion of Mandatory Chart Review Process has been demonstrated (see the Clinic manual).**
3. **Patient records will be evaluated according to the Mandatory Chart Review Process (See the Clinic manual).**
- a. **Presence of adequate and thorough pre-treatment records (photos, radiographs, exam, casts, medical and dental history);**
 - b. **Adequate and thorough treatment records (progress notes in the "s-h-a-p-e-d" format, each note co-signed by the attending indicating treatment under his/her direction);**
 - c. **Each chart is to be kept the order designated in Mandatory Chart Review Process (See the Clinic manual)**

***A copy of the self-evaluation form is attached to this syllabus.**

4. **A contract must be obtained for each and every patient. Strict adherence to this rule is mandatory for this course. As stated in the clinic manual, the first offense constitutes a suspension of clinic privileges for one month; to be completed after the academic year has finished. The second offense constitutes an automatic failure of this course; meaning you will have to stay another year to complete your course requirements.**
5. **Residents must present six *progress* portfolios in the first two months of their third year (mid-August through mid-October). These portfolio presentations will be scheduled during the treatment planning sessions of Drs. Beeman, Hicks and**

Kluemper. The names of these six patients will be given to Dr. Kluemper by the second week in August and will then be scheduled over the two-month period by Ms. Allyson Cooper. The cases are to represent all six categories listed below. They will then be on record for review in either electronic form (in CD format) or in hard-copy, on display on the Orthodontic Conference Room. In the spring of the third year, the third year resident will then present as many of these cases in *final form* as he/she has slots on Friday Morning Case Conference and Monday Night Ortho/Surgery Conference.

- Class II - 2 cases, 1 growth modification, 1 adolescent or adult
- Extraction - 1 case
- Orthodontic/Surgery- 1 case
- Excess vertical development – 1 case
- Class III or Craniofacial Anomaly – 1 case
- Significant Transverse Discrepancy – 1 case

*******Note: for class of 2005 only, this clinical expectation is replaced with ABO Clinical Outcomes Pilot Study**

6. All activities in this course are conducted under the College of Dentistry Code. The College has high expectations of each student concerning his/her professional and academic responsibilities including self-governance. If you have questions about expected standards of behavior, it is your responsibility to discuss and clarify these questions with the course director.
7. Strict adherence to infection control is an expectation of this course. As mentioned in the clinic manual, each semester the first violation constitutes a warning. Each additional violation will result in a drop in letter grade for this course. (**Note:** "C" or less requires the student to repeat the course.)

COURSE SCHEDULE

General Schedule:

Mondays

10-12 *Treatment Planning with Dr. Hicks
1-4:30 Patient care with Dr. Kluemper

Tuesdays

*Treatment planning with Dr. Kluemper

Wednesdays

1-4:30 Patient care with Dr. Beeman

Thursdays

8-10 *Treatment planning with Drs. Beeman
1-4:30 Patient care with Dr. Hicks

Fridays

7:30-9 Case Conference

(4/month)	9-12	Patient care with attending part-time faculty
"	12-2	Seminar or Treatment Planning with attending part-time faculty
"	2-4:30	Patient care with attending part-time faculty

Friday Case Conference Schedule:

Students will be asked to present cases being overseen by each of the attending faculty, on a rotating basis. We will not be assigning the faculty for each presentation, as this presents logistical problems both with assuring that the attending is present at each presentation and with selecting cases that are most ready for progress evaluation. Our objective is to have each attending represented equally in the presentations. To accomplish this, please select an appropriate case for each attending to be presented on a day when that person will be present, and do not present twice for any attending until you have presented once for all the others. Since the part-time faculty are here on a more limited basis, please give priority to presenting their cases. Third year residents are required to present their ABO cases over the course of the year, in ABO format. The finished cases should include self-grading according to ABO criteria.

First-year students will not present case conferences unless requested by attending.

EVALUATION SHEET
ORT 661 - Clinical Orthodontics

Student: _____

Instructor: _____

Semester: _____

Competent
(Yes/No)*

Item being evaluated

_____	1. Completed cases presented according to ABO standards (third-year students only):
_____	a. Thoroughness of diagnosis and treatment planning
_____	b. Quality of treatment and understanding of factors that influenced outcome;
_____	2. Case conference presentation:
_____	a. Thoroughness of diagnosis and treatment planning;
_____	b. Quality of treatment and understanding of factors that influenced outcome;
_____	3. Preparation and presentation of each treatment plan:
_____	a. Thoroughness of diagnosis and treatment planning;
_____	b. Understanding of factors that may influence outcome
_____	4. Competency in daily patient care:
_____	a. Preparation for patient visit--ability to evaluate and communicate progress relative to treatment plan;
_____	b. Quality of plan suggested by student for the specific visit;
_____	c. Ability to carry out daily treatment.
_____	d. Suggested Grade

* If not competent or adequate progress, please indicate area in need of correction and, if possible, suggest steps to be taken to achieve competency and/or adequate progress: