

OSE 6315: Syllabus

Liquid Crystal Materials & Devices

10:30-12:15 PM, CREOL A214

Tuesdays and Thursdays

May 17-Aug. 6, 2010

Prof. Shin-Tson Wu

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Contents

Ch.1: Liquid crystal materials

Ch.2: Physical properties

Ch.3: Optical properties

Ch.4: Electro-optic properties

Ch.5: Dynamics of liquid crystals

Ch.6: Cholesteric LCs

Lab work

Ch.7: Transmissive LCDs

Ch.8: Transflective LCDs

Ch.9: Projection displays

Ch.10: Tunable photonic devices

Ch.11: Emerging blue-phase LCs

Grading Policy

Homework:	30%
Midterm:	30%
Final:	40%

Tentative schedules:
Midterm: July 1, 2010
Final: Aug. 5, 2010

Reference Book:

Yang and Wu, “Fundamentals of *Liquid Crystal Devices*” (Wiley, 2006)

<http://www.sid.org/>

Will upload lecture notes in pdf